Mr. David Furth, Acting Chief Public Safety and Homeland Security Bureau Federal Communications Commission 445 12th Street SW Washington, D.C., 20554

Reference: 800 MHz NPSPAC Plan Amendment

WT Docket No. 02-55

NPSPAC Docket No. 89-363

Dear Chief Furth:

Enclosed please find attached the Region 54 NPSPAC Streamline Plan Amendment. If you have any questions, please call me at (608) 266-2497.

Sincerely,

Carl R. Guse

Carl R. Guse Region 54 NPSPAC RPC Chair

Attachment: Region 54 NPSPAC Plan

SOUTHERN LAKE-MICHIGAN 800 MHZ REGIONAL PLANNING COMMITTEE

PUBLIC SAFETY COMMUNICATIONS PLAN FOR THE SOUTHERN LAKE MICHIGAN REGION

(F.C.C. REGION NUMBER 54)

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PREFACE

In December 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met for the future. The Commission issued a Notice of Inquiry on March 7, 1984 and evaluated over three hundred comments from the public safety community and other interested parties.

These comments formed the basis for a Staff Report issued by the Commission's Private Radio Bureau on August 1, 1985. This report suggested various methods of meeting the communications needs of public safety. One option included was the allocation of additional frequencies at 821-825 MHz and 866-870 MHz.

The Commission issued an allocation order on September 19, 1986. Six Megahertz of spectrum were selected in the 821-824 MHz and 866-869 MHz bands, since they were adjacent to frequencies already being used for public safety purposes. However, while the Commission made this allocation, it also stipulated that the frequencies could not be used until a National Plan for spectrum utilization was adopted.

The Commission then established the National Public Safety Planning Advisory Committee (NPSPAC) in December, 1986. This committee had open membership and all interested parties were invited to participate in its meetings.

The Commission charged NPSPAC with the following tasks:

- (1.) Identify communications requirements of public safety agencies.
- (2.) Develop a scheme for efficient use of the new frequencies.
- (3.) Develop a scheme to increase the utility of existing public safety frequencies.
- (4.) Recommend the manner in which new technologies can be applied to public safety frequencies.
- (5.) Recommend guidelines to ensure compliance with the National Plan.

NPSPAC submitted its Initial Report to the Commission in March, 1987. On May 15, 1987 the Commission issued a Notice of Proposed Rule making proposing policies and rules for the National Plan. NPSPAC then issued its Final Report in September, 1987. On December 18, 1987 the Commission released a Report and Order regarding the development and implementation of a Public Safety National Plan: General Docket No. 87-112.

In its introductory comments the Commission expresses its belief that "while certain technical concerns must be addressed at the national level, the great diversity of needs in different areas of the country demand that input also be obtained at the State and Local levels." Thus, the United States was divided into Regions, primarily along State boundaries. A few large metropolitan areas were designated as independent Planning Regions.

Prior to the Report and Order, NPSPAC's Final Report had recommended a total of fifty-four (54) Planning Regions. The Chicagoland megalopolis was one of these. However, when the Report and Order was released, the Commission had established only forty-eight (48) Planning Regions. The multi-state Chicago megalopolis was specifically excluded from the list, as were other densely populated metropolitan areas around the country. A Petition for Limited Reconsideration was filed by NPSPAC on February 12, 1988 asking that additional planning regions be established, as previously recommended. The Commission subsequently granted this Petition and established fifty-five regions, including the Chicago Metro area.

This document constitutes the Public Safety Communications Plan for Region No. 54: The Southern Lake Michigan Planning Region. It addresses the unique spectrum allocation requirements of the public safety and governmental authorities throughout this multi-state area.

It is respectfully submitted to the Commission this ----day of ------ under the umbrella of the National Plan.

Teddy F. Vratny, Chairman

THE REGION

ESTABLISHMENT OF REGIONAL BOUNDARIES

For Public Safety Communications purposes, the Southern Lake Michigan Region (the Region) is the geographic area surrounding the southern tip of Lake Michigan. The Region is comprised of forty-three counties within the four States of Wisconsin, Illinois, Indiana, and Michigan. Its approximately thirteen million people represents more than five percent of the Nation's population.

Protecting the lives and property of these persons is a function of hundreds of Public Safety and Special Emergency agencies which are operated or regulated by a multitude of various political jurisdictions. Personal mobility and the proximity of communities in today's metropolitan areas demand cooperation and coordination among these agencies. Whether the activity is search and rescue across Lake Michigan, or the pursuit of a criminal offender along the Tri-State Tollway, mobile and portable radios provide the means for the myriad of agencies involved to communicate with each other.

Radio communications also provide the means for each agency to accomplish its own individual, day-to-day operations. These communications must be reliable, and free from interference from neighboring agencies. Therefore, frequencies must be assigned to agencies throughout a given area in a manner that makes inter-agency communication possible, but prevents inter-agency interference.

Other issues to be considered when determining what area should comprise a Planning Region are: the continuing urbanization of outlying counties; the sophistication of radio technology; and most importantly, the amount of radio spectrum available to public safety agencies throughout the area.

Since agencies from around the southern tip of Lake Michigan affect <u>each other</u> more on these issues than they affect agencies in other parts of their own States, the decision to form a multi-state planning region was made.

The initial boundaries of the Southern Lake Michigan Region were determined by drawing a circle on a midwestern map, using downtown Chicago as the center and a 110 mile radius. Tangents were then drawn to this circle. The result was a densely populated area with a history of radio frequency problems covering 40,000 square miles. These boundaries were adopted as the starting point for definition of the Region on December 10, 1987.

Final boundaries for the Region, along county lines, were drawn in February, 1988 when the Petition was filed with the Commission. The forty-three counties which comprise the Southern Lake Michigan 800 MHz Planning Region are listed in Table 1, as shown in Figure 1.

TABLE 1: COUNTY POPULATION ESTIMATES

WISCONSIN	CURRENT	1995	2005
Kenosha	212,100	117,862	113,243
Racine	171,600	173,361	173,262
Milwaukee	937,500	890,453	844,791
Ozaukee	68,400	73,997	78,795
Washington	88,400	98,102	106,378
Waukesha	285,400	306,400	315,476
Dodge	75,900	80,078	81,504
Dane	341,400	360,961	377,383
Walworth	71,200	74,330	78,255
Rock	138,300	141,898	142,330
Jefferson	67,200	69,203	71,062
ILLINOIS			
Winnebago	250,800	250,345	246,472
Boone	29,100	30,017	30,690
McHenry	158,600	180,372	196,522
Lake	468,600	603,346	533,537
Cook	5,294,900	5,394,332	5,448,171
DuPage	716,200	828,757	884,683
Kane	299,000	344,672	379,274
De Kalb	73,600	73,111	75,073
Kendall	37,000	37,503	37,464
Will	334,100	367,757	402,451
Grundy	31,200	32,187	32,616
Kankakee	98,600	94,705	92,471
INDIANA			
Lake	496,900	481,920	466,720
Porter	122,900	131,210	135,840
LaPorte	106,500	101,970	97,610
Newton	144,100	13,880	13,440
Jasper	26,500	27,420	27,800
Pulaski	13,400	14,410	14,980
Starke	21,200	21,320	21,190
Marshall	41,300	43,110	44,530
St. Joseph	241,500	240,930	243,760
Elkhart	145,300	154,450	160,460
MICHIGAN			

TOTAL	12,860,700	13,425,069	13,619,733
St. Joseph	58,300	65,100	72,500
Barry	46,880	52,600	58,000
Cass	48,300	52,600	55,600
Kalamazoo	48,300	52,600	55,600
Berrien	162,700	168,200	166,600
Van Buren	66,400	77,200	85,000
Allegan	85,200	95,000	106,900
Kent	467,200	296,700	523,200
Muskegon	156,900	153,600	148,600
Ottawa	167,100	190,900	216,000

PRELIMINARY ORGANIZATION

Monthly meetings for the planning process began in September of 1987. Deliberations on administrative and technical questions began at that time, using the Regional Planning Tasks published by NPSPAC as a functional basis for organizing small work groups. Much of the groundwork thus had already been done prior to the formal creation of the Region.

In March, 1988 four individuals were designated by the Associated Public-Safety Communications Officers, Inc. (APCO) as Co-Conveners for the Region: Teddy F. Vratny (Illinois); Donald Kottlowski (Indiana); David Held (Michigan); and Carl Guse (Wisconsin). They then prepared and published an announcement of the first official meeting for persons interested in participating in the planning process.

NOTIFICATION OF ELIGIBLES

In General Docket No. 87-112, the FCC declared that since the Public Safety Radio Service and the Special Emergency Radio Service both play important roles in public safety, it is necessary to make both services eligible to operate in the 821-824/866-869 MHz bands.

While recognizing that it may not be possible to grant requests for assignments to everyone, the Commission did conclude that membership on regional planning committees must be open to representatives from all potential user groups.

In accordance with the Report & Order, the Southern Lake Michigan Planning Region took the below listed steps to ensure that its membership was open to as broad a range of eligible participants as possible. (Referenced materials are all contained in Appendix A).

- 1. On March 8, 1988 the announcement of the Initial Meeting was mailed to individual public safety agencies as well as professional organizations/associations of all eligible user groups, the National Communication System, and the Federal Emergency Management Agency.
- 2. On March 24, 1988 the FCC issued a Public Notice announcing the initial meeting.
- 3. On May 2, 1988 a reminder notice was sent out through the Law Enforcement Agency Data System (LEADS).
- 4. The Announcement was posted in County Courthouses throughout the Region from March through May, 1988.

FORMATION OF THE PLANNING COMMITTEE

On May 12, 1988 the first official meeting of the Southern Lake Michigan 800 MHz Regional Planning Committee (the Committee) was held in Arlington Heights, Illinois. Mr. Teddy F. Vratny was elected Chairman of the Committee; Lieutenant William T. Corbett was elected Secretary.

The Summary of Proceedings of this meeting (and of all meetings preceding and succeeding it) are available for inspection at the office of the Secretary.

Appendix B contains the names, affiliations, mailing addresses and phone numbers of the officers of the Region. Appendix C contains this information for all persons who have participated in the Southern Lake Michigan 800 MHz Regional Planning Committee.

REGIONAL CONFORMANCE REVIEW COMMITTEE (RCRC)

The Committee realizes that its work does not end with the submission of this Plan. Future modifications to the Plan may be required; applications for radio systems proposed within the Region will need to be reviewed for compatibility with the Plan; implementation of these systems will require monitoring; coordination with the National Plan will continue. Obviously, there must be a mechanism by which future tasks can be accomplished.

To provide this mechanism, the Committee of the Whole has established the Regional Conformance Review Committee (RCRC) (See Appendix D). This committee will be composed of the Frequency Advisory Committee Chairman and another representative from each State within the Region, plus the Regional Planning Committee Chairman. The RCRC will convene upon the Commission's approval of this Plan.

COORDINATION WITH ADJACENT REGIONS

There are four planning regions which are adjacent to the Southern Lake Michigan Region. They consist of the remaining portions of each of the four States. A combination of three historical facts has created an excellent opportunity for coordinating this Plan with those of the regions adjacent to it:

(1) Among the five regions, the Southern Lake Michigan Region was the first to organize a planning committee.

- (2) From its beginnings in 1987, this Region has had as members, the Frequency Advisors and Regional Planning Conveners of each encompassing State.
- (3) As of this date, two members of the SLMRPC have been elected Chairman of their home state's regional planning committees (Illinois and Indiana).

Communication among regions has thus been ever present during the drafting of this Plan. Implementation of each of the five plans will likewise be coordinated through the mutual membership and cooperation of the planning committees.

CONFORMITY WITH THE NATIONAL PLAN

It is the expressed intent of the Committee to conform with the requirements of the National Plan as defined in paragraphs 11 -40 of General Docket No. 87-112. This Plan is submitted to the Commission subject to the review process described in the Report and Order.

REVIEW PRIOR TO SUBMISSION

As work progressed on the Regional Planning Tasks the original small groups were organized into three Subcommittees: Administrative, Technical, and Operational. They codified their suggestions, and wrote draft proposals on individual topics. After reaching a consensus, the subcommittees then presented their proposals to the Committee of the Whole for review and comment.

Upon acceptance of its content by the Committee, each draft was then forwarded to the Administrative subcommittee for collation. The complete final draft was then presented to the Committee of the Whole for page by page review.

AUTHORITY

The Southern Lake Michigan 800 MHz Regional Planning Committee derives its authority to carry out the activities required for composition and implementation of this Plan from the Commission's Report and Order General Docket No. 87-112 released on December 18, 1987 and the Petition for Limited Reconsideration as a multi-state region granted by the Commission on March 30, 1988.

NEEDS ANALYSIS

The Report & Order specifies that regional plans explain how the requirements of all eligible entities were considered. This section of the Plan describes how this specification has been met.

QUESTIONNAIRE DEVELOPMENT

It was decided that the best means of identifying the radio spectrum needs of the Region as a whole was to survey the potential users individually. To this end, work began on drafting a questionnaire in February, 1988. Sample documents were prepared and given to Committee members for comment during the ensuing three months. This review process resulted in the final survey instrument which is contained in Appendix E: The Southern Lake Michigan 800 MHz Regional Planning Committee Radio User Questionnaire.

Distribution to potential eligibles began in May, 1988. Over 1500 copies of the questionnaire were mailed to both individual public safety agencies and professional organizations/associations. Appendix F contains a listing of the professional organizations contacted. These organizations were requested to photocopy the survey and distribute it to their members. Because of this extended process the exact number of questionnaire recipients cannot be determined.

The questionnaire was designed to elicit meaningful information detailing current, as well as future, radio frequency needs. The years 1995 and 2005 were used for future projections. Information was requested in four topical sections:

- (I) "General Information" asked the respondents to provide agency identification information including the type of service supplied to the public.
- (II) "Demographic information" asked specific questions regarding the agency's service area.
- (III) "Frequency Needs" asked questions regarding the agency's use of radio frequencies for voice and data transmissions.
- (IV) "Equipment" asked the respondents to project their agency's inventory of several radio equipment items.

QUESTIONNAIRE RESULTS

Section (I)

Four hundred and ninety-two (492) usable surveys were returned, compiled, and analyzed using the computer program DBASE III Plus. The objective of including both Public Safety and Special Emergency Service agencies was achieved. Surveys were received from all types of governmental and non-governmental organizations (e.g., Law Enforcement, Fire Fighting, Emergency Medical, Forestry, Veterinary, School Bus, etc.).

Section (II)

Eight agencies reported that their service area encompassed their entire state and five agencies reported that their service areas cross state lines. 389 of the agencies service an area that is urban, or both urban and rural. This statistic reflects the continuing urbanization of the outlying areas in the Southern Lake Michigan Region.

Section (III)

35.7% of the agencies reported that their radio system is not adequate for their needs today. This percentage increases to over two-thirds and more than three-fourths for the years of 1995 and 2005, respectively. One third of the respondents reported that their field units "often" have to wait for access to a voice channel. When asked if they planned to expand their use of radio frequencies for data transmission, 34.3% of the respondents said that they did.

Two other statistics found in this section of the questionnaire bear directly on issues raised in the Report and Order: prioritization of eligibles and frequency give-backs.

First, the total number of new 800 MHz frequencies reported to be needed now is 425; this total increases to 684 in 1995; by 2005, responding agencies expect to need over one thousand new 800 MHz frequencies in the Region. Secondly, given a choice between additional frequencies in the 800 MHz spectrum or additional frequencies in their current spectrum, 74.5% preferred the latter. The first statistic demonstrates the need for this Region to prioritize agencies applying for the new spectrum, according to their degree of involvement in providing for the protection of life and property. The second statistic supports the assumption that public safety entities in the Region are "waiting in line" for lower band frequencies. As licensees move up to the new spectrum

they will be expected to make every effort to give up their lower band frequencies, as described in the Report and Order.

While the number of frequencies projected to be needed by the respondents appears to exceed the number available in the new spectrum, it should be noted that actual applications for them are few at this time. When asked if an application for 800 MHz channels was pending, only four (4) agencies responded affirmatively. Only one (Naperville, Illinois) has forwarded a frequency coordination request to the Committee. Prioritization is therefore expected to satisfy the needs of all public safety eligibles in the Region at this time of filing.

Section (IV)

This last section of the survey gathered figures relating to the amount of radio equipment in the Region. Mobile and portable radios constitute the largest portion of this equipment (approximately 67,000 owned now, over 100,000 units projected to be owned by 2005). The largest growth categories of equipment are mobile data terminals and automatic vehicle locators. These categories are projected to increase from 528 (MDT) now to 12,684 in 2005; and from 30 (AVL) now to 10,785 in 2005, respectively. The need to include data transmissions when planning spectrum allocations becomes obvious when confronted with these numbers.

For the sake of brevity, this section of the Plan has presented selected items of information as evidence to the Commission of the Planning Committee's efforts to identify the radio frequency needs of this Region's potential eligible users. More detailed results are contained in Appendix G. It is anticipated that the information collected with this questionnaire will prove as useful to future planning and coordinating activities within the Region as it has proven to be in the development of this Plan.

APPLICATIONS

This section of the Plan describes the procedures for applying for a license to operate a radio system in the new spectrum, as well as the process by which that application will be evaluated. Applications shall be submitted during specific periods of time known as "filing windows". Said filing windows will be designated by the RCRC, be opened at least once annually, and be announced in advance. It is the intention of the RCRC to announce the dates of the first filing window within thirty (30) days of the date of the Commission's approval of this Plan.

APPLICATION REVIEW

Applications for licenses in the 806-809/851-854 MHz band will be subject to review by the RCRC at the closing of each filing window. This review is required prior to formal submission of the application to the national APCO frequency coordination office. Applications may be rejected at the Regional level for non-conformance with this Plan. Also, any application received outside of the designated "filing window" will be returned to the applicant for re-submission during the next filing window.

APPLICATION PROCEDURES

Applications will be submitted to the local Frequency Advisory Committee Chairman. The Frequency Advisory Committee Chairman will peruse the application packet for completeness, and the eligibility of the applying organization. Incomplete applications, or applications from agencies which are not considered by this Plan to be eligible for the limited spectrum, will be returned to the applicant with the appropriate remarks. Copies of complete applications received from eligible public safety entities will be forwarded to the RCRC for evaluation.

INFORMATION REQUIRED

The current standardized APCO Frequency Coordination and FCC License Application forms will be used. In addition, the applicant will be required to furnish supplemental information in specific categories. These categories are enumerated (and briefly defined) on the following page. Each category has been assigned a numerical weight for application evaluation purposes. Category weights are contained in Appendix H. Where

further comments affecting a category are made elsewhere in this Plan, the appropriate page number(s) are also specified.

- Service ---What tasks or duties the agency is charged with accomplishing.
- 2. System Type ---In narrative form, a description of the radio system being proposed (trunked, conventional, voice, data, voice/data combined, etc.) (page 14).
- 3. Intersystem Interoperability ---How agents of the applying organization will communicate with agents of different organizations. (pages 18, 21-25).
- 4. Channel Loading Factors --- Equipment inventory totals, and the maximum number of mobile radios potentially in use at a given time. (pages 16, 19).
- 5. Coverage Area ---Details of an engineering survey showing the radio coverage required for minimum coverage of jurisdictional boundaries. (pages 14, 15, 18).
- 6. Vacated Frequencies Returned ---Which frequencies the agency will release. (pages 16, 17).
- 7. Implementation Schedule ---An explanation of any budgetary commitment and a proposed time frame for putting equipment into service.

The RCRC may request additional information at the time of review to assist in evaluation.

APPLICATION EVALUATION

The Regional Conformance Review Committee (RCRC) will review each application for its conformity to this Plan. Evaluations will be based upon the seven factors mentioned above. A final point total will be determined by adding the points earned in each category as listed in Appendix H. The RCRC will base their recommendation for approval or rejection of the application upon the final point total.

Once an application has been reviewed it will be returned to the applicant for the appropriate action (e.g., filing, additional information required, modification, etc.).

ELIGIBILITY

Agencies applying for frequencies in the 806-809 and 851-854 MHz band will be prioritized according to the degree that the service(s) they provide is fundamental to the protection of life and property. Only Public Safety and Special Emergency Radio Service agencies are eligible to apply for a license in the 806-809/851-854 MHz band.

APPEAL PROCESS

Throughout the frequency allocation process, applicants are given opportunities to appeal decisions which have caused rejection of their application. The appeal process has two levels, APCO and the FCC. An applicant who decides to appeal a rejection should initiate that appeal immediately upon notification of the rejection. In the event that an appeal reaches the second level (the FCC), the Commission's decision will be final and binding upon all parties.

SPECTRUM UTILIZATION

This portion of the Plan lays the foundation for the efficient and effective utilization of the spectrum. Its purpose is to guide the RCRC in the task of evaluating new applications for the use of radio frequencies in the 806-809/851-854 MHz bands.

PRIMARY AND SECONDARY ZONES

The demand for frequencies varies depending on population of the area. Dense urban areas contain many individual public safety agencies, all making their own demands for frequencies. This problem is not as intense in more rural areas where the number of individual agencies is fewer. To differentiate between such areas of the Region, Primary and Secondary "zones" have been designated. A Primary zone contains jurisdictions which are severely impacted as a result of an excess demand for scarce spectrum. A Secondary zone contains jurisdictions which are impacted to a lesser degree. The requirements for system implementation in a Primary zone will be more restrictive than in a Secondary zone.

At this time the Primary zones are defined as the following six counties: Cook, DuPage, Lake, and Kane (Illinois); Lake (Indiana); Milwaukee (Wisconsin). The remaining 37 counties of the Region are all defined as Secondary zones.

TRUNKING

Applicants requesting licenses for five (5) or more channels will be required to trunk those channels. Exceptions to the rule will not be allowed unless an equally spectrum efficient technology is proposed, or, the applicant can otherwise demonstrate that trunking will not meet the specific operational requirements of the agency.

Applicants requesting licenses for four (4) or less channels within the Secondary Zone may be permitted conventional operation. In the Primary Zone, conventional operations with four (4) or less channels will only be allowed when all efforts to consolidate communications with other agencies are proven to be infeasible.

COVERAGE AREA

The desired coverage of a system is considered to be a maximum of three (3) miles outside of the boundary of the applicant's jurisdiction. The maximum designed mean signal strength at this contour shall not exceed 40 dBu (+40dB above one microvolt per meter) measured with an antenna mounted no less than five feet (5') above ground. Petitions to provide coverage exceeding these parameters will be examined on a case by case basis. Overlap or extended coverage must be minimized even where agencies are proposing to intermix systems for cooperative and/or mutual aid purposes.

ADJACENT CHANNEL ASSIGNMENTS

Adjacent channel assignments will be made when it is determined that the two or more systems will create a signal strength of +25 dBu or less, anywhere within their partner's boundary.

CO-CHANNEL ASSIGNMENTS

Co-channel assignments will be made when it is determined that two or more systems will create a signal strength of $+5 \, \text{dBu}$ or less, anywhere within their co-channel partner's boundary.

To achieve the most efficient use of the spectrum, distances between transmitters for cochannel reuse will not be held to a seventy (70) mile separation in this Plan. Separation of co-channel transmitters will be determined by the coverage needs of the applicant, natural barriers far separation, antennae patterning, and limited ERP's where possible.

CHANNEL LOADING CRITERIA

In this Plan, existing loading standards will be applied for Priority Level I <u>voice</u> communications: 70 mobiles per conventional channel, 100 mobiles per trunked channel. For all <u>data only</u> systems and Priority Level II and III voice (or voice/data combined) systems, the loading criteria will increase: 100 mobiles per conventional channel, and 150 mobiles per trunked channel.

Agencies that support interoperability by permitting Federal use of their frequencies through S-160 (or equivalent) agreements, may augment their channel requirements by

a maximum of 2% to account for the increased number of mobile units. Written documentation detailing the expected number of Federal radios involved will be required at the time of application.

In order to conserve spectrum, agencies must demonstrate that the number of radios potentially <u>in use at one time</u> meet these loading criteria. Agencies which cannot demonstrate this potential may be denied exclusive use of the allocated channel(s). Petitions to deviate from these criteria will be considered by the RCRC on an individual basis.

VACATED FREQUENCIES

It is anticipated that as public safety agencies implement 800MHz radio systems, they will be able to vacate the VHF and UHF frequencies on which they previously operated. The RCRC will apply the three conditions governing frequency give-backs described in the Report and Order:

- (1) The new system fully replaces the functions of the old one.
- (2) The licensee has no other communications requirements that could be met through the use of the lower frequencies.
- (3) The new system has operated satisfactorily for long enough to allow a smooth transition from former operations. and to demonstrate its reliability.

Vacated frequencies will be returned to their respective pools to be re-assigned by the FCC approved Frequency Advisory Committee Chairman, with recommendations by the RCRC, in order to provide the most beneficial use to public safety.

INITIAL SPECTRUM ALLOCATION

The methodology used to determine the spectrum allocations at the time of filing this Plan is contained in Appendix J. The allocation itself is contained in Appendix K.

TECHNICAL DESIGN CONSIDERATIONS

This section of the Plan discusses topics which must be considered when engineering a new system.

CHANNELING PLAN

The 25 KHz offset channeling plan established by the National Plan will be required of all systems to be licensed in the 806-809/851-854 MHz bands.

INTEROPERABILITY WITH ADJACENT LOWER BANDS

There are several hundred agencies in the Region currently operating on frequencies in the 806-821/851-866 MHz bands. While most of these agencies may continue operating in these frequencies for several years, many of them will be looking to expand their systems into the new spectrum. Any application submitted under the auspices of this Plan must demonstrate technical ability to provide communication between new and existing systems. Waivers for technical specifications on existing 800 MHz equipment will be considered on an individual basis.

SYSTEM DESIGN

When designing a system, engineers will be required to minimize the distance between transmitter sites by using a combination of limited Effective Radiated Power (ERP), tower height, type of terrain, or any other factors which are technically feasible to minimize adjacent and co-channel interference. Information detailing the methodologies used (including calculations) must be included in the application.

DATA TRANSMISSION

The SLMRPC user survey revealed the use of radio frequencies for data transmissions as the largest "growth" category among responding agencies in the Region. As stated in the <u>Loading Criteria</u> section of this Plan, data only transmissions, whether for emergency or routine messages, will demand a higher loading standard.

CELLULAR RADIO TECHNOLOGY

Trunking technology is presently considered the most spectrum efficient use of radio transmissions for public safety. Cellular radio technology has so far proven useful only for telephone communications. However, it may, with future technological improvements, prove useful for public safety. Agencies are cautioned that any proposal of the use of cellular radio as an alternative to a trunked radio system must demonstrate that it can provide the same or greater degree of spectrum efficiency as trunking, and handle communications in an emergency situation.

MOBILE SATELLITE SERVICE (MSS)

During incidents of major proportions such as airliner crashes, earthquakes, tornadoes, floods, forest fires or nuclear reactor calamities, public safety requirements might include the need for long-range communications in and out of a disaster area. The planned Mobile Satellite Service (MSS) may prove to be a viable alternative to land based systems in these situations, once technical innovations are developed which will provide uni-directed or corridor-driven communications over a lengthy distance. This service should be restricted to frequencies above 960MHz, however, and licensing in the Public Safety spectrum shall be limited to public safety eligibles only.

AIRCRAFT TO GROUND COMMUNICATIONS

The use of any 800 MHz radio in an aircraft shall be restricted. Air to ground transmissions shall be limited to a maximum effective radiated power (ERP) of one (1)Watt* unless system design dictates otherwise. Tactical transmissions shall be on the mobile relay output or talk-around frequencies only. Co-channel and adjacent channel users are not required to provide protection to airborne users. No transmissions on limited area channels are allowed above 2,000 feet AGL, and no transmissions are allowed above 5,000 feet AGL, even on wide area mutual aid channels.

^{*} Aircraft will be permitted to utilize additional power under 500 feet AGL.

INTEROPERABILITY CONSIDERATIONS

This section of the Plan outlines the steps taken by the Committee to permit Federal, State and Local agencies to coordinate their activities during an emergency or disaster situation.

INTERSYSTEM INTEROPERABILITY

The intent of this Plan is to enhance interagency communication. Extensive mutual aid communication networks already exist throughout the Region. The National Plan has now set aside five (5) channels in the new spectrum for mutual aid. Agencies applying for licenses in the 806-809 and 851-854 MHz bands will be required to explain how they will implement the new Common Channels. They will also be required to explain how they will maintain intercommunication with their neighboring agencies who do not implement the Common Channels, but still are dependent upon the applying agency for assistance in an emergency.

COMMON CHANNELS

The Common Channels used in this Region comply with the National Plan, and consist of one (1) calling channel and four (4) tactical channels (Tac 1 through Tac 4). (See Table 2).

TABLE 2: SOUTHERN LAKE MICHIGAN 800 MHz PLANNING REGION COMMON CHANNEL FREQUENCY DESIGNATIONS

<u>USAGE</u>	FREQUENCY
Calling Channel	806.0125 MHz* 851.0125 MHz**
Tactical Channel 1	806.5125 MHz * 851.5125 MHz**
Tactical Channel 2	807.0125 MHz* 852.0125 MHz**
Tactical Channel 3	807.5125 MHz* 852.5215 MHz**
Tactical Channel 4	808.0125 MHz* 853.0125 MHz**

^{* -}MOBILE

^{** -}BASE

Tac Channel coverage design shall ensure that at least one channel is available for each section of the Region. Multi-agency communications events will be coordinated by the Primary Dispatch Center, or assigned to the controlling agency. The coordinating agency shall relinquish control of the channels when the incident is cleared.

CROSS SYSTEM PATCHES

Cross system patches to existing day to day systems, other mutual aid channels, or long range communications systems must be manually controlled. Automatic patches are not permitted. Cross system patches are normally handled by the Primary Dispatch Center in the section of the Region involved.

Communications on Common Channels use a two-tier structure: initial contact (calling), and working (tactical) channels. These channels are not to be used for daily operations, not for inter-agency communications that do not involve an emergency situation. The Tactical Channels shall cover the entire Regional area, with mobile relay stations normally operating in the "repeat disable" mode.

The Common Channels are restricted to required intercommunications among agencies that do not have access to other compatible communications channels. A "Primary Dispatch Center" will assign one or more tactical channels for the duration of a specific emergency or incident requiring multi-agency communications.

Because of the wide variance of voice codes among agencies ("ten" signals, alphanumeric codes, etc.), agencies will use plain English on the Common Channels. The Primary Dispatch Center, with full support of the Regional Committee, will monitor radio traffic discipline, and resolve serious or chronic infractions.

PRIMARY DISPATCH CENTER

The four (4) State governments of the Region will be responsible for the implementation and operation of the National Calling Channel, Tactical Channels, and Primary Dispatch Centers. They will ensure that interoperable tactical channel mobile relays exist in specific areas of the Region. The mobile relay stations will provide the required number of working channels within the Region necessary to assure interoperable communications between Federal, State and Local Government agencies involved in an emergency. Other services shall participate as required, to ensure the public safety.

Agencies involved in an incident will be subject to the Regional rules on inter-agency communication. Radio transmissions will be made in accordance with the directions of the Primary Dispatch Center or controlling agency.

CALLING CHANNEL

Calling Channel base stations will be configured as mobile relays, strategically located to assure complete regional coverage, and connected by a suitable network to Primary Dispatch Centers. Mobile "talk around" is permitted on the Calling Channel to establish initial contact between agencies, for the purpose of determining which Tactical channel(s) to use for the duration of an incident.

Depending on geographical size and population density, several networks may be necessary to cover the outer areas of the Region. Primary Dispatch Centers, and agencies operating base/control stations in the area shall monitor the Calling Channel to provide assistance and/or assign a Tactical Channel to requesting field units.

The Calling Channel shall be used only to make initial contact with other agencies in the Region, or with the Primary Dispatch Center in that section of the Region. After contact is established, a tactical or other mutual aid channel shall be expeditiously agreed upon, or be assigned by the Primary Dispatch Center. The Calling Channel shall not be used as a working channel for continued communications. It shall be vacated as soon as possible, to free it up for the next initial contact.

TACTICAL CHANNELS (TAC 1 THROUGH TAC 4)

Tactical Channels are reserved for agencies involved in multi- agency communications during emergencies or other occurrences requiring interoperable communications. Tactical channels, like the Calling Channel, will be strategically located to provide maximum coverage throughout the Region. Design criteria will limit Tac Channel coverage to permit multiple re-use of the channels within the Region as required in coordination with adjacent regions to prevent or minimize interference.

APPENDIX A

- S Southern
- L Lake
- M Michiqan

800 MHZ

- R Regional
- P Planning
- **C** Commission

136 N. County Farm Road Wheaton, Illinois 60187 March 8, 1988

Dear Sirs:

Having been duly Certified to the Federal Communications Commission (FCC) by the Associated Public Safety Communications Officers, Inc. (APCO) as the Convenors for the initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Commission in the Chicago Metropolitan/Southern Lake Michigan Area, we are attaching a copy of the official notice of said metting. This notice also contains the counties included in this regional planning area, along with the convenors mailing addresses and phone numbers.

This region is one that should be designated by the FCC as a planning region as a result of a petition for limited reconsideration submitted by the National Public Safety Planning Advisory Committee on February 12, 1988.

The responsibility of the Regional Planning Commission will be to develop a plan for the use of frequencies in the 821-824 and 866 -869 megahertz bands allocated by the FCC for use by such licensees. Parties interested in participating in the regional planning process should contact one of the convenors listed below.

This Public Notice is in accordance with FCC's Report and Order In General Docket No. 87-112, adopted by the FCC on November 24, 1987 and printed in the Federal Register of January 15, 1988. (53 Fed. Reg. 1022).

The Report and Order was based in large part on the final report of the National Public Safety Planning Advisory Committee, which was submitted to the FCC on September 9, 1987.

Copies of both the Report and Order and the Final Report are available from the FCC's duplication contractor, International Transcription Services, Inc. Suite 140, 2100 M Street, N.W., Washington D.C. 20037. Phone (202) 857-3800.

Convenor for Illinois: Teddy F, Vratny

Convenor for Indiana: Donald Kottiowski

Convenor for Michigan: Dave Held

Convenor for Wisconsin: Carl Guse

Announcement of the Initial Regional Public Safety Planning Meeting For The Chicago Metropolitan/Southern Lake Michigan Area

The purpose of this Public Notice is to announce the initial meeting of the Chicago Metropolitan/Southern Lake Michigan Regional Planning Commission.

Date/Time: Wednesday, May 12, 1988 at 10:00AM.

Location: Woodfield Hilton

Woodfield #1 meeting Room 3400 West Euclid Avenue

Arlington Heights, illinois 60006

Convenors:

Illinois Indiana

Teddy F, Vratny Donald Kottlonski Du-Comm Central Dispatch Indiana State Police

136 N. County Farm Rd. Room 389 State Office Building

Wheaton, IL 60187 Indianapolis, IN 46204

(312) 640-8088 (317) 232-8257

Michigan Wisconsin
Dave Held Carl Guse

Michigan State Police Wisconsin Frequency Coordinator

714 S. Harrison Road N5504 Highway E East Lansing, MI 48823 Iron Ridge, WI 53035 (517) 332-2521 (414) 485-4455

As a result of a Petition for Reconsideration, to the Commission's National Plan for Public Safety, Report and Order, Gen Docket 87-112, 53 Fed. Reg, 1022 (January 15, 1988), submitted by the National Public Safety Planning Advisory Committee on February 12, 1788, the Commission is now considering the reconfiguration of the boundaries of several of the planning regions, Among these is the Chicago Metropolitan Area region which, depending on future Commission action, may eventually contain the following counties:

<u>Illinois</u> -Winnebaqo, Boone, McHenry, Lake, Cook, DuPaqe, Cane, DeKalb, Kendall, Will, Grundy and Kankakee

<u>Indiana</u> -Lake, Porter, LaPorte, Newton, Jasper, Pulaski, Starke, Marshall, St. Joseph, and Elkhart

Michigan -Ottawa, Muskegon, Kent, Allegan, Van Buren, Berrien, Kalamazoo, Cass, Barry and St. Joseph

<u>Wisconsin</u> -Kenosha, Racine, Milwaukee, Ozaukee, Washington, Waukesha, Dodge, Dane, Walworth, Rock and Jefferson

All parties located in the Metropolitan Chicago area and interested in participating in the public safety planning process are encouraged to contact any of the convenors listed above for further information.

FEDERAL COMMUNICATIONS COMMISSION WASHINGTON. D.C 20554 March 31, 1988

Mr. Teddy F. Vratny Du-Comm Central Dispatch 136 N. County Farm Rd. Wheaton, IL 60187

Dear Mr. Vratny:

Enclosed is a copy of the Public Notice that was issued by the FCC to assist you in announcing the initial meeting of the Chicago Metropolitan/Southern Lake Michigan Public Safety Planning Committee.

The Commission appreciates your work in organizing this most important meeting, and I would like to offer my continuing support to you and the Committee in your upcoming planning efforts. Please do not hesitate to contact me (202-632-7597) if I can be of further assistance to you.

Sincerely,

Richard J. Shiben, Chief Land Mobile and Microwave Division

PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION 1919 M STREET N.W. WASHINGTON, D.C.20554

ANNOUNCEMENT OF THE INITIAL REGIONAL PUBLIC SAFETY PLANNING MEETING FOR THE CHICAGO METROPOLITAN/SOUTHERN LAKE MICHIGAN AREA

The purpose of this Public Notice is to announce the initial meeting of the Chicago Metropolitan/Southern Lake Michigan Public Safety Planning Committee.

DATE/TIME: May 12, 1988/10:00 AM

LOCATION: Woodfield Hilton

Illinois Meeting Room 3400 West Euclid Avenue

Arlington Heights, Illinois 60006

CONVENORS: Illinois -Teddy F. Vratny

Du-Comm Central Dispatch 136 N. County Farm Rd. Wheaton, It 60187 (312) 690-8088

Michigan -Dave Held Michigan State Police 7 S. Harrison Road East Lansing, MI 48923

(517) 332-2521

Indiana -Donald Kottlowski Indiana State Police State Police Building, Room, 309 Indianapolis, IN 46204 (317) 232-8257

Wisconsin -Carl Guse Wisconsin Frequency Coordinator N5504 Highway -E -Iron Ridge, WI 53035 (414)485-8455 In the Commission's National Plan for Public Safety, <u>Report and Order</u>, Gen. Docket 87-1 12, 53. Fed. Reg. 1022 (January 15, 1988), an interstate "Chicago Metropolitan" planning region was not established. Planning for the Chicago area was, instead, to be handled by the Illinois, Indiana, Michigan, and Wisconsin regions.

As a result of a Petition for Reconsideration submitted by the National Public Safety Planning Advisory Committee on February 12, 1988, however, the Commission is now considering the realignment of the boundaries of several of the planning regions. Included in this realignment will be the creation of the Chicago Metropolitan/Southern Lake Michigan region, which, upon adoption by the Commission, sill contain the following counties:

<u>Illinois</u> -Winnebago, Boone, McHenry, Lake, Cook, DuPage, DeKalb, Kendall, Will, Grundy, and Kankakee

<u>Indiana</u> -Lake, Porter, LaPorte, Newton, Jasper, Pulaski, Starke, Marshall, St. Joseph, and Elkhart

Michigan -Ottawa, Muskegon, Kent, Allegan, VanBuren, Berrien, Kalamazoo, Cass, Barry, and St. Joseph

<u>Wisconsin</u> -Kenosha, Racine, Milwaukee, Ozaukee, Washington, Waukesha, Dodge, Dane, Walworth, Rock, and Jefferson

All parties located in the Chicago area and interested in participating in the public safety planning process are encouraged to contact any of the convenors listed above for further information.

-FCC -

XDU

3JTH 050288 09.04L02 LO3 LO4 LO3 JTH.

MSG NR:JTHSX-001

ALL AGENCIES

ATTN: CHIEF OF POLICE

RE: SOUTHERN LAKE MICHIGAN REGIONAL PLAN COMMITTEE MTG

THE SOUTHERN LAKE MICHIGAN REGIONAL PLAN COMMISSION WILL BE HOLDING HEARINGS TO DISCUSS THE NEW €00 MHZ FREQUENCY ON MAY 12, 1988 AT 10100 A.M. AT THE WOODFIELD HILDTON, WOODFIELD #1 MEETING ROOM, 3400 W. EUCLID AV. ARLINGTON HGTS, IL 60006. THE PURPOSE OF THIS NOTICE IS TO ANNOUNCE THE INITIAL MEETING OF THE CHICAGO METRO/SOUTHERN LAKE MICH REGIONAL PLANNING COM MISSION . THE COMMISION IS NOW CONSIDERING THE RECONFIGURATION OF THE BOUNDARIES OF SEVERAL OF THE PLANNING REGIONS. AMONG THESE IS THE CHGO AREA REOION WHICH, DEPENDING ON FUTURE COMMISSION ACTION, MAY EVENTUALLY CONTAIN THE FOLLOWING COUNTIES WINNEBAGO, BOONE, MCHENRY, LAKE, (PAGE 2 TO FOLLOW) PD ORLAND PARK AUTH: CHIEF 'DUKE' GORRIS

XDU

3JTH 050288 10.04 32LOZ LO3 LO4 LO5 JTH.

MSG NR: JTH88-001

ALL AGENCIES

ATTN: CHIEF OF POLICE (PAGE 2 OF 2)

RE: SOUTHERN LAKE MICHIGAN REGIONAL PLAN COMMITTE MTG

COOK, DUPAGE, KANE, DEKALB, KENDALL, WILL, GRUNDY, AND KANKAKEE

WITHIN THE STATE OF ILLINOIS. ALL DEPARTMENTS LOCATED IN THE METRO CHICAGO AREA AND INTERESTED IN PARTICIPATING IN THE PLANNING PROCESS ARE ENCOURAGED TO CONTACT TEDDY VRATNY, DUCOM CENTRAL DISPATCH, 136 N. COUNTY FARM RD. WHEATON, IL 60187 TELEPHONE 312/690-8088. PD ORLAND PARK AUTH: CHIEF 'DUKE' GORRIS 1004 PN

APPENDIX B

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING OFFICIALS

CHAIRMAN

Teddy F. Vratny Du-Comm 136 North County Farm Road Wheaton, Illinois 60187 (312)260-7500

SECRETARY

William T. Corbett Chicago Police Department 1202 West Madison Street Chicago, Illinois 60607 (312)421-4803

CO-CONVENORS

MICHIGAN

David H. Held Michigan state Police 714 S. Harrison Road East Lansing, Michigan 48823 (517)337-6240

INDIANA

Donald W. Kottlowski Indiana State Police Communications 100 North Senate Avenue Indianapolis, Indiana 46204 (317)899-8257

WISCONSIN

Carl R. Guse Dodge County Sheriff N5504 Highway E Iron Ridge, Wisconsin 53035 (414)485-4455

APPENDIX C

SOUTHERN LAKE MICHIGAN 800 MHZ REGIONAL PLANNNING COMMITTEE MEMBERS NAME AGENCY PHONE ADDRESS					
JAMES ADLER	JEFFERSON COUNTY SHERIFF	414-674-2306	PO BOX 297, JEFFERSON, WI 53549		
KENNETH ANDERSON	DEERFIELD POLICE DEPARTMENT	312-945-8636	850 WAUKEGAN RD., DEERFIELD, IL 60015		
RALPH ANTONACCI	STATE OF ILLINOIS EMS	217-785-2080	525 W. JEFFERSON ST., SPRINGFIELD, IL 62761		
GENE BARLOG	ISP LOWELL COMMUNICATIONS	219-838-3184	1550 W. 181ST AVE., LOWELL, IN 46356		
LARRY BARNES	HIGHLAND POLICE DEPARTMENT	219-838-3184	3333 RIDGE RD., HIGHLAND, IN 46322		
DARRELL BARTZ	ILLINOIS STATE POLICE	217-782-7345	601 SANGAMON AVE., SPRINGFIELD, IL 62702		
GREGORY BISHOP	CHICAGO FIRE DEPARTMENT	312-744-8635	543 W. TAYLOR ST., CHICAGO, IL 60607		
JAMES BOTTANDO	CITY OF GARY	219-866-0066	1128 MASSACHUSETTS, GARY, IN 46407		
JAMES BROWN	ILLINOIS APCO FAC	309-788-0581	1510 46 AVE., ROCK ISLAND, IL 61201		
DICK BUGGS	WALWORTH COUNTY SHERIFFS	414-741-4425	COURTHOUSE BLG/COUNTY JAIL, ELKHORN, WI 53121		
JACK BURLISON	INDIANA STATE POLICE	317-899-8259	100 N. SENATE AVE., INIDIANAPOLIS, IN 46204		
MICHAEL CELESKI	CHICAGO POLICE DEPARTMENT	312-421-4803	1202 W. MADISON ST., CHICAGO, IL 60607		
JAMES CHASE	WAUKESHA COUNTY	414-548-7125	PO BOX 1488, WAUKESHA, WI 53187		
MICHAEL CIMA	ILLINOIS STATE POLICE	217-782-7345	601 SANGAMON AVE., SPRINGFIELD, IL 62702		
BILL CLANCEY	GENERAL ELECTRIC COMPANY	312-573-3650	1015 SPRING RD., OAK BROOK, IL 60522		
WILLIAM CORBETT	CHICAGO POLICE DEPARTMENT	312-421-4803	1202 W. MADISON ST., CHICAGO, IL 60607		
RAYMOND COX	HOFFMAN ESTATES POLICE DEPT	312-882-9100	1200 N. GANNON DR., HOFFMAN ESTATES, IL 60196		
DICK DEMELLO	MICHIGAN DEPT OF NATURAL	517-373-1190	PROCUREMENT PO 30028, LANSING, MI 48909		
RAY DEWITT	RESOURCES INDIANA TOLL ROAD	219-674-8836	PO BOX 1, GRANGER, IN 46530		

DOUG EDMONDS	NORTHWEST CENTRAL DISPATCH	312-398-1130	33 S. ARLINGTON HTS. RD., ARLINGTON HTS., IL 60005
RALPH EISENBRANDT	FRANKFORT FIRE DEPARTMENT	815-469-1700	333 W. NEBRASKA ST., FRANKFORT, IL 60423
DANIEL EKLOF	STATE OF WISCONSIN-DIV. OF HEALTH	608-266-0471	PO BOX 309, MADISON, WI 53701
PAT FASANO	MOTOROLA, INC.	312-350-3718	1000 MITTEL DR., WOODDALE, IL 60191
RICHARD FINCH	INDIANA DNR-RADIO		613 STATE OFFICE BLG., INDIANAPOLIS, IN 46204
ROBERT FITZSIMMONS	COMMUNICATIONS CHICAGO POLICE DEPARTMENT	312-744-6351	1121 S. STATE ST., CHICAGO, IL60605
ROBERT FLEISSNER	MOTOROLA, INC.	201-447-7618	86 HARRISTOWN RD., GLEN ROCK, NJ 07452
GUS FLORES	EMERGENCY COMMUNICATIONS	219-391-8493	2201 COLUMBUS DR., EAST CHICAGO, IN 46312
JOHN FLYNN	CENTER BOLINGBROOK FIRE DEPARTMENT	312-759-0443	375 W. BRIARCLIFF, BOLINGBROOK, IL 60439
JEFF GALAS	ILLINOIS DEPARTMENT OF	312-705-4376	201 W. CENTER CT., SCHAUMBURG, IL 60196
JOHN GARCIA	TRANSPORTATION EMERGENCY COMMUNICATIONS	219-391-8493	2201 E. COLUMBUS DR., EAST CHICAGO, IN 46312
DUKE GORRIS	CENTER ORLAND PARK POLICE DEPARTMENT	312-349-4111	14600 RAVINIA AVE., ORLAND PARK, IL 60462
WILLIAM GRAVES	RACINE POLICE DEPARTMENT		730 CENTER, RACINE, WI
GARY GRAY	APCO	714-938-4311	481 THE CITY Dr. S., ORANGE, CA 92668
CARL GUSE	DODGE COUNTY SHERIFF	414-485-4455	N5504 HIGHWAY E, IRON RIDGE, WI 53035
ROBERT HAJEK	MELROSE PARK ESDA	312-294-3285	PO BOX H, RIVERSIDE, IL 60546
DONALD HALLMAN JR	HALLMAN ELECTRONICS, INC	616-926-1555	276 COLFAX AVE., BENTON HARBOR, MI 49022
GENE HANEY	RACINE POLICE DEPARTMENT	414-554-7802	2507 S. GREEN BAY RD., EAST LANSING, MI 48823
WAREEN HEINE	ELGIN POLICE DEPARTMENT	312-695-6500	150 DEXTER CT., ELGIN, IL 60120
DAVID HELD	MICHIGAN STATE POLICE	517-337-6240	714 S. HARRISON RD., EAST LANSING, MI 48823

WALLACE HELLER	LAKE COUNTY RADIO DEPARTMENT	312-362-1960	1303 N. MILWAULEE AVE., LIBERTYVILLE, IL 60448
CHARLES HENRICI	ELK GROVE FIRE DEPARTMENT	312-364-2673	101 BIESTERFIELD RD., ELK GROVE VLG., IL 60007
MICHAEL HERMES	WHEELING POLICE DEPARTMENT	312-459-2600	255 W. DUNDEE RD., BOX V, WHEELING, IL 60090
CHARLES HOYER	NAPERVILLE POLICE DEPARTMENT	312-420-6721	131 W. JEFFERSON, NAPERVILLE, IL 60540
ROGER HUGG	ILLINOIS FIRE CHIEFS ASSOCIATION	312-397-3352	ROLLING MEADOWS, IL 60008
FRED ISRAEL	DUPAGE COUNTY SHERIFF'S DEPARTMENT	312-682-7265	501 N. COUNTY FARM RD., WHEATON, IL 60190
VICTOR JAUTOKAS	CHICAGO POLICE DEPARTMENT	312-744-5422	1121 S. STATE ST., CHICAGO, IL60605
PAUL JOHNSTON	EF JOHNSON COMPANY	815-623-6088	PO BOX 588, ROSCOE, IL 61073
DONALD KOTTLOWSKI	INDIANA STATE POLICE COMMUNICATIONS	317-899-8257	100 N. SENATE AVE., INIDIANAPOLIS, IN 46204
ERICK KURT	OGDEN DUNES FIRE DEPARTMENT	219-762-4125	111 HILLCREST RD., ODGEN DUNES, IN 46368
PAUL MARSHALL	MOTOROLA, INC.	312-350-3714	1000 MITTEL DR., WOODDALE, IL 60191
GUS MAXIN	CITY OF GARY, C & E DEPARTMENT	219-886-0066	1128 MASSACHUSETTS ST., GARY, IN 46407
DUANE MCCUNE	GE MOBILE RADIO	312-573-3650	2015 SPRING RD., OAK BROOK, IL 60522
TG MIEURE	GURNEE POLICE DEPARTMENT	312-244-1132	1014 MASSENA, WAUKEGAN, IL 60085
BRUCE MOELLER	NAPERVILLE FIRE DEPARTMENT	312-420-4198	133 W. JEFFERSON, NAPERVILLE, IL 60540
PHYLLIS NOVY	ORLAND PARK POLICE DEPARTMENT	312-349-4111	14600 RAVINIA AVE., ORLAND PARK, IL 60462
TIMOTHY O'NEILL	CITY OF DELAVAN POLICE	414-728-6311	123 S. 2ND ST., DELAVAN, WI 53115
MITCHELL OPANASENKO	MICHIGAN DEPARTMENT OF TRANSPORTATION	517-373-2719	425 W. OTTAWA ST., LANSING, MI 48933
STANLEY PAYNE	MOTOROLA, INC.	312-350-3538	1000 MITTEL DR., WOODDALE, IL 60191
STEVE PESTIKAS	MUNSTER POLICE DEPARTMENT	219-836-8131	1001 RIDE RD., MUNSTER, IN 46321

ROSS PICKETT	STATE OF ILLINOIS ESDA	217-782-6818	110 E. ADAMS ST., SPRINGFIELD, IL 62706
CHARLES RACE	WAUKESHA CO. EMERGENCY GOVERNMENT	414-548-7580	515 W. MORELAND BLVD., WAUKESHA, WI 53188
GREG RIDDLE	ELK GROVE FIRE DEPARTMENT	312-364-2672	101 BIESTERFIELD RD., ELK GROVE VLG., IL 60007
JOHN R. RIMICCI	CHICAGO POLICE DEPARTMENT	312-744-5444	1121 S. STATE ST., CHICAGO, IL60605
RUSS ROBINSON	RAM COMMUNICATIONS CONSULTANTS	313-569-2337	18311 W. TEN MILE RD., SOUTHFIELD, MI 48075
JULIUS J. RUTILI	COOK COUNTY SHERIFF'S DEPARTMENT	312-865-4808	1401 S. MAYBROOK DR., MAYWOOD, IL 60153
ROGER SCHOENFELD	KENOSHA COUNTY SHERIFF'S DEPARTMENT	414-656-7300	1000 55TH ST., KENOSHA, WI 53140
AL SCHULD	BARRINGTON HILLS POLICE	312-551-3006	112 ALGONQUIN RD., BARRINGTON, IL 60010
ALAN SCHWOEGLER	DEPARTMENT CITY OF MADISON	608-266-4767	1120 SAYLE ST., MADISON, WI 53715
FRANK SEPIC	MILWAUKEE POLICE DEPARTMENT	414-344-5656	749 STATE ST., MILWAUKEE, WI 53233
RICHARD SHULAK	WISCONSIN STATE PATROL, BOC	608-267-9799	4802 SHEBBOYGAN AVE., MADISON, WI 53707
GEORGE SHULOCK	EMERGENCY COMMUNICATIONS	219-391-8493	2201 E. COLUMBUS DR., EAST CHICAGO, IN 46312
JERRY SMOLYNSKY	CENTER ILLINOIS DEPARTMENT OF	312-705-4378	200 W. CENTER CT., SCHAUMBURG, IL 60196
WILLIAM SPERLING	TRANSPORTATION WOODRIDGE POLICE DEPARTMENT	312-852-7000	ONE PLAZA DR., WOODRIDGE, IL 60517
WILLIAM SPRINGER	ILLINOIS TOLLWAY AUTHORITY	312-574-2000	2001 W. 22ND ST., OAK BROOK, IL 60521
DALE STOUFFER	NATIONAL COMMUNICATION SYSTEM	703-746-1242	ACE & S. COURTHOUSE RD., ARLINGTON, VA 22204
RICHARD STRAUSS	MILWAUKEE COUNTY	414-278-4858	907 N. 10TH ST., RM 313, MILWAUKEE, WI 53223
DAVID SWAN	CITY OF PEORIA	309-672-8769	6526 N. SHERIDAN RD., PEORIA, IL 61614
LUD SZYMCZAK	ILLINOIS TOLLWAY AUTHORITY	312-574-2000	2001 W. 22ND ST., OAK BROOK, IL 60521
WILLIAM TIEGS	GREENFIELD POLICE DEPARTMENT	414-2819480	5300 W. LAYTON AVE., GREENFIELD, WI 53220

MAYNARD TINSMAN JR.	FEDERAL EMERGENCY MANAGEMENT AGENCY	202-646-3065	OFFICE OF EMERGENCY MGT., WASHINGTON DC 20472
JOHN TOSCAS	COOK COUNTY SHERIFF'S DEPARTMENT	312-865-4808	1401 S. MAYBROOK DR., MAYWOOD, IL 60153
EMIL VOGEL	MOTOROLA, INC.	201-447-4000	85 HARRISTOWN RD., GLEN ROCK, NJ 07452
TEDDY VRATNY	DUCOMM CENTRAL DISPATCH	312-690-8088	136 N. COUNTY FARM RD., WHEATON, IL 60187
EDWARD WACKOWSKI	GARY FIRE DEPARTMENT	219-886-0727	200 E. 5TH AVE., GARY, IN 46402
RICK WALSTRA	PORTER COUNTY EMS	219-464-9963	2206 LAPORTE AVE., VALPARAISO, IN 46385
JACK WATSON	ILLINOIS TOLLWAY AUTHORITY	312-574-2000	2001 W. 22ND ST., OAK BROOK, IL 60521
MIKE WATSON	MISHAWAKA FIRE DEPARTMENT	219-258-1673	600 E. THIRD ST., MISHAWAKA, IN 46544
DONALD WILLIAMS	ILLINOIS STATE POLICE	217-782-7345	601 SANGAMON AVE., SPRINGFIELD, IL 62702
ALLEN WILLIAMS	EF JOHNSON COMPANY	219-583-7890	PO BOX 595, MONTICELLO, IN 47960
NEAL WITZKE	TRI-ELECTRONICS	219-931-6895	6231 CALUMET, HAMMOND, IN 46324
GLENN ZUBLER	CITY OF SOUTH BEND	219-284-9295	701 SAMPLE ST., SOUTH BEND, IN 46625

APPENDIX

D

This Appendix contains the minutes of the November 17, 1988 meeting during which formation of the Regional Conformance Review Committee (RCRC) was decided upon. Reference to this is found beginning with the second paragraph on the second page.

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMITEE

MEETING SUMMARY

NOVEMBER 17, 1988

KENOSHA, WISCONSIN

The Committee of the Whole was called to order by Chairman Ted Vratny at 10:10 A.M. Roger Schoenfeld welcomed everyone to the Kenosha County Public Safety Building and introduced staff members from the center. A sign-in sheet was circulated throughout the audience for the record of attendance. Ted then introduced Emil Vogel who updated the Committee on relevant issues.

Regarding the Commission's Notice of Inquiry on trunking standards, Emil reported that many organizations had filed comments. Opinions and positions contained in these papers varied widely, resulting in no clear cut mandate for the Commission. Thus, it is felt that the standards issue probably will not remain on the "fast track", as originally hoped. What effect this will have on the release of frequencies is unclear.

Next, Emil reported on the three regional plans (Florida, Dallas/Ft. Worth, and New York Metro) which were submitted to the Commission in August.

The Plan submitted by the State of Florida was rejected. The planners had divided the state into "subregions" and their draft only addressed the Southeast section of the State at the time. The Commission directed the planners to eliminate the "subregions" and resubmit their plan encompassing the entire State. It is anticipated that this will be accomplished in January, 1989.

The Dallas/Fort Worth Plan was also rejected. In this case, the rejection was based on the conclusions made from their user questionnaire. The planners did not qualify their findings when they reported that there was a greater demand for spectrum than there is spectrum available. The Commission reasoned that the purpose of the regional plans is to make the best use of the 6 MHZ being made available to public safety. Plans should not be submitted which state that this amount is not enough. What is required in the plans is a statement of whether the needs of all agencies requesting frequencies were satisfied. If they weren't, the plan must explain how agencies were prioritized. The plan must also explain how the needs of those agencies who will not receive allocations in the new spectrum will be satisfied.

The New York Plan has been approved by FCC Staff. APCO has filed comments in support of the plan: an adjacent region has filed comments criticizing it. Reply Comments were due on November 28th. A decision by the Commission will likely be forthcoming in January, 1989.

After distributing (and briefly commenting on) the Reply Comments filed by the SLMRPC on the trunking standards issue, Ted raised four topics for discussion: Regional Plan Review Committee; Frequency Coordination; Frequency Specifics; and Mutual Aid Channels.

Discussion on the first two topics became intertwined, as it was agreed that the Plan ought to establish a standing committee to accomplish future tasks; and that frequency coordination within the new spectrum was possibly one of those tasks.

Carl Guse moved that the standing committee be composed of the Frequency Advisory Committee Chairman from each State, plus one other representative of each State, plus the Chairman Of the Southern Lake Michigan Regional Planning Committee. Discussion on this motion resulted in agreement that the "other state representative" must be from an agency operating within the Region. This motion was seconded by Dick Buggs and put to the Committee of the Whole for a vote; it passed without opposition.

The title of this standing committee was then considered. It was pointed out that "Regional Plan Review Committee" was somewhat of a misnomer, since the committee's functions would apparently encompass much more than reviewing the Plan. It was agreed by consensus that the standing committee would be entitled the "Regional Conformance Review Committee" (or RCRC) to indicate that its general purpose was one of reviewing documents, applications, systems, etc. for their conformance to the Regional Plan.

The next motion brought to the floor regarded the voting authority of the members of the RCRC. Bill Corbett moved that each member be allowed one vote. If one representative from a State was absent during a vote, the other representative from that state would be empowered with the absent member's proxy. However, if both representatives of a state are absent, no proxies would be allowed and a majority of those present would decide the issue. The motion was amended to include the right of the Regional Planning Committee Chairman to vote in all instances, not merely in instances of a tie vote, The motion was seconded by Dave Held and then passed by the Committee of the Whole without opposition. Comments were briefly introduced regarding the by-laws of the RCRC, but it was decided that the establishment of by-laws and operating procedures was more appropriately a task left to the members of the RCRC themselves.

The topic of Frequency Specificity was then raised. Jim Brown asked whether the "CET" computer program will be able to provide assistance in this area. Emil reported that as yet, National APCO has not had a chance to fully implement this software in the New Smyrna offices, However, it appeared that the timing would coincide with our needs.

Dave Held pointed out that there are two issues to address: (1) How many channels will each agency be allocated: and (2) Which frequencies will they be allocated. To do this, Emil suggested that the Statewide agencies' needs must be determined first, then

distribution of the remaining frequencies can be made depending on frequency re-use criteria. Resolution of this topic was not possible at this time, and Ted asked Jim Brown to have his Technical Subcommittee consider it, using the results of the User Questionnaires.

On the question of how many mutual aid channels are required in the Southern Lake Michigan Region, it was decided that the five (5) channels designated in the National Plan are enough.

Jack Watson passed out copies of a draft of the Operational Subcommittee's proposals. The ensuing conversation highlighted certain considerations. Jack mentioned that mobile relay base stations on the common channels will be required to normally operate in the repeat disable mode. Dick DeMello said that in wide-area networks, school buses will have to be allowed access to these channels. Ted suggested that stricter guidelines be imposed in metropolitan areas than in rural areas regarding the school bus issue. It was also noted that while fixed end equipment might only require one channel, mobile equipment will have to have all five channels. Finally, Emil reported that the Commission has dropped the Subject of Encryption from the Report & Order: thus, it need not be addressed in the regional plans. Jack Watson asked that all members review the document that he distributed and call him prior to the next meeting with comments or suggestions.

The Committee of the Whole adjourned at 12:08 P.M.

NEXT MEETING:

December 14, 1988 at 10:00 (CST) A.M. at the Muster, Indiana Police Department 1001 Ridge Road Munster, IN 46321 Exit Interstate 80 at Calumet Avenue and follow the attached local map.

CONTACT PERSON:

Lt. Steve J. Pestikas (Munster P.D.) (219) 836-8131

APPENDIX

E

SOUTHERN LAKE MICHIGAN 800MHz REGIONAL PLANNING COMMISSION

Teddy F. Vratny
Representative for the State of Illinols
Du-Comm Central Dispatch
136 North County Farm Road
Wheaton, Illinois 60187
(312)690-6088

Dear Sir:

The Federal Communications Commission is making new portions of the radio spectrum available to Public Safety and Special Emergency Radio services. However, before the FCC will grant licenses in this new spectrum (821-824 & 866-869 MHz), a "Regional Plan" showing a coordinated approach to spectrum allocation among the various eligible users must be submitted.

Such a plan is being developed by representatives from the States of Michigan, Indiana, Illinois and Wisconsin for the greater metropolitan Chicagoland area. This area is known as the Southern Lake Michigan 800 MHz Planning Region and encompasses forty-three counties within the four states. Your organization has been identified as a potential user of the 800MHz radio spectrum in this Region.

Enclosed you will find a questionnaire developed by the Regional Planning Commission. It is designed to obtain information which is vital to the planning process. We strongly urge you to complete and return this questionnaire. Without your input at this time, your needs for voice and data communications will not be known; thus, they will not be considered in our Regional Plan.

We realize that you may not have exact, detailed information about your current situation readily at hand. We also realize that it is difficult to project trends and needs for fifteen years in the future. But it is in your own best interest to obtain and report as accurate data as possible. Some suggested resources you might consult are your inventory and management information reports, as well as your local universities and planning organizations. In the event that you cannot obtain "hard statistics" for any item(s), you should report your "best estimates".

The questionnaire must be completed and returned to me no later than

Thank you,

Teddy F. Vratny TFV:mjc

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSSON

RADIO USER QUESTIONNAIRE

INSTRUCTIONS:

This questionnaire is designed to obtain information from potential users of newly available radio spectrum in the 821-824 and 866-869 megahertz ranges. It consists of four Sections and seven pages. Many of the items only require a choice or choices to be checked. Where blank lines are provided for longer answers, please PRINT the information asked for. If the space given is not enough to accommodate your answer, you may attach additional comments to the end of this survey.

Please print the name of your organization/agency at the top of each page in the space provided. When you have completed the questionnaire, return it to your State's representative for the Southern Lake Michigan Regional Planning Commission. His name and address are listed below. and again on the accompanying cover letter. Should you have any questions regarding this survey you may call him at: (312)690-8088.

Remember, in order to have your needs considered in the Regional Plan, you must return this questionnaire within three weeks. Failure to do so may result in your experiencing difficulty in obtaining radio frequencies in the future.

Return this completed questionnaire to:

THE SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION c/o:

Teddy F. Vratny Representative for the State of Illinois Du-Comm Central Dispatch 136 North County Farm Road Wheaton, Illinois 60187

SOUTHERN LAKE MICHIGAN 800MHz REGIONAL PLANNING COMMISSION

Carl R. Guse
Representative for the State of Wisconsin
Dodge County Sheriff
N5504 Highway E
Iron Ridge, Wisconsin 53035
(414)685-4455

Dear Sir:

The Federal Communications Commission is making new portions of the radio spectrum available to Public Safety and Special Emergency Radio services. However, before the FCC will grant licenses in this new spectrum (821-824 & 866-969 MHz), a "Regional Plan" showing a coordinated approach to spectrum allocation among the various eligible users must be submitted.

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Thank you.

Carl R. Guse CRG:mjc enci.

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

RADIO USER QUESTIONNAIRE

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Return this completed questionnaire to:

THE SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

c/o Carl R. Guse Representative for the State of Wisconsin Dodge County Sheriff N5504 Highway E Iron Ridge, Wisconsin 53035

SOUTHERN LAKE MICHIGAN 800MHz REGIONAL PLANNING COMMISSION

Donald W. Kottlowski Representative for the State of Indiana Indiana State Police Communications 100North Senate Avenue Indianapolis, Indiana 46204 (317)899-8257

Dear Sir:

The Federal Communications Commission is making new portions of the radio spectrum available to Public Safety and Special Emergency Radio services. However, before the FCC will grant licenses in this new spectrum (821-824 & 866-969 MHz), a "Regional Plan" showing a coordinated approach to spectrum allocation among the various eligible users must be submitted.

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The questionnaire must be completed and returned to me no later than

Thank you,

Donald W. Kottlowski

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

RADIO USER QUESTIONNAIRE

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Remember, in order to have your needs considered in the Regional Plan, you must return this questionnaire within three weeks. Failure to do so may result in your experiencing difficulty in obtaining radio frequencies in the future.

Return this completed questionnaire to:

THE SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

c/o

Donald W. Kottlowski Representative for the State of Indiana Indiana State Police Communications 100North Senate Avenue Indianapolis, Indiana 46204

SOUTHERN LAKE MICHIGAN 800MHz REGIONAL PLANNING COMMISSION

David H. Held Representative for the State of Michigan Michigan State Police 714 South Harrison Road East Lansing, Michigan 48823 (517)337-6240

Dear Sir:

The Federal Communications Commission is making new portions of the radio spectrum available to Public Safety and Special Emergency Radio services. However, before the FCC will grant licenses in this new spectrum (821-824 & 866-969 MHz), a "Regional Plan" showing a coordinated approach to spectrum allocation among the various eligible users must be submitted.

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The questionnaire must be completed and returned to me no later than

Thank you,

David H. Held

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

RADIO USER QUESTIONNAIRE

INSTRUCTIONS:

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Remember, in order to have your needs considered in the Regional Plan, you must return this questionnaire within three weeks. Failure to do so may result in your experiencing difficulty in obtaining radio frequencies in the future.

Return this completed questionnaire to:

THE SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMISSION

c/o
David H. Held
Representative for the State of Michigan
Michigan State Police
714 South Harrison Road
East Lansing, Michigan 48823

SECTION I

GENERAL INFORMATION

1. NAME OF AGENCY:	
2. ADDRESS:	
3. PHONE NUMBER:	
4. CONTACT PERSON:	
5. TITLE:	
6. NAME OF PERSON COMPLETING	QUESTIONNAIRE:
7. TYPE OF ORGANIZATION:	
(A) [] Governmental (B) [] Private
8. TYPE(S) OF SERVICE: (Check all th	at apply)
(A) [] Law Enforcement	(G) [] Fire Fighting
(B) []Emergency Medical	(H) [] Highway Maintenance
(C) [] Forestry/Conservation	(I) [] Civil Defense
(D) [] Beach Patrol	(J) [] Disaster Relief
(E) [] Handicapped Assistance	(K) [] School Bus
(F) [] Other (please specify):	(L) [] Veterinarian
9. DOES YOUR AGENCY UTILIZE A M	MULTI-AGENCY DISPATCH SERVICE?
(A) [] Yes (B) [] No
10. IF YOUR ANSWER TO QUESTION ADDRESS OF THE DISPATCH CEN	9 WAS "YES," PLEASE LIST THE NAME AND
ADDRESS OF THE DISTATOR CEL	VI LIV.

AGENCY:
SECTION II
DEMOGRAPHIC INFORMATION
1. PLEASE CHECK THE STATE(S IN WHICH YOU OPERATE:
(A) [] WI (B) [] IL (C) [] IN (D) [] MI
2. DO YOU SERVICE THIE ENTIRE STATE?
(A) [] Yes (B) [] No
IF YES, GO TO QUESTION #8.
3. DOES YOUR SERVICE AREA ENCOMPASS
(A) [] One County (B) [] Multiple Counties
4. PLEASE LIST THE COUNTY NAME(S):

5. DOES YOUR SERVICE AREA ENCOMPASS
(A) [] One City/Town (B) [] Multiple Cities/Towns
6. PLEASE LIST THE CITY/TOWN NAME(S):
7. IS YOUR SERVICE AREA:
(A) []Urban (B) [] Rural (C) [] Both
8. WHAT IS THE SIZE OF YOUR SERVICE AREA?
Square miles
9. WHAT IS THE CURRENT POPULATION OF YOUR SERVICE AREA?

10. WHAT IS THE POPULATION PROJECTED TO BE IN THE YEARS.....

2005: _____

1995: _____

AGENCY:
SECTION III
FREQUENCY NEEDS
1. IS YOUR PRESENT RADIO SYSTEM ADEQUATE TO MEET YOUR CURRENT NEEDS?
(A) [] Yes (B) [] No
YOUR 1995 NEEDS?
(A) [] Yes (b) [] No
YOUR 2005 NEEDS?
(A) [] Yes (B) [] No
2. DO YOU HAVE PLANS TO ALTER YOUR RADIO SYSTEM IN THE FUTURE?
(A) [] Yes (B) [] No 3. IF YOU DO, PLEASE GIVE A BRIEF DESCRIPTION OF YOUR PLANS:
5. IF YOU DO, PLEASE GIVE A DRIEF DESCRIPTION OF YOUR PLANS:
4. HAVE YOU HAD TO USE ANY ALTERNATE METHODS OF DISPATCH BECAUSE OF AN INABILITY TO ACQUIRE SUFFICIENT RADIO SPECTRUM FOR EITHER FINANCIAL REASONS OR SPECTRUM UNAVAILABILITY? (A) [] Yes (B) [] No 5. IF YES, PLEASE EXPLAIN:
6. HAVE YOU HAD TO BORROW, SHARE. OR LEASE RADIO FREQUENCIES FROM OTHER AGENCIES IN ORDER TO MAINTAIN YOUR DISPATCH OPERATION? (A) [] Yes (B) [] No 7. IF YES, PLEASE EXPLAIN:

8. HOW OFTEN DOES YOUR AGENCY ENCOUNTER "WAIT TIME" TO ACCESS A RADIO CHANNEL FOR VOICE TRANSMISSIONS FROM THE FIELD?

(a) [1] Never (P) [1] Solder less than once a week (C) [1] Senetimes more than

(a) [] Never (B) [] Seldom, less than once a week

(C) [] Sometimes, more than once a week

(D) [] Often, more than once a shift

AGENCY:	
	SECTION III (CONT'D)
9. ON THE AVERAGE, 1	HOW MANY VOICE TRANSMISSIONS DOES YOUR AGENCY
MAKE PER HOUR?	
	TRANSMISSIONS MIGHT OCCUR DURING YOUR BUSIEST
HOUR?	
	RAGE LENGTH OF AIR TIME USED PER VOICE
TRANSMISSION?	
12. DO YOU HAVE ANY	PLANS TO EXPAND YOUR USE OF RADIO FREQUENCIES
FOR TRANSMISSIONS	?
(A) [] Yes	(B) [] No
13. DO YOU HAVE ANY	PLANS TO USE VOICE ENCRYPTION TECHNOLOGY TO
PROVIDE PRIVATE AN	D SECURE RADIO TRANSMISSIONS?
(A) [] Yes	(B) [] No
14. DO YOU HAVE ANY	PLANS TO INCORPORATE "TELEPHONE
INTERCONNECTS" WI	TH YOUR MOBILE OR PORTABLE RADIOS?
(A) [] Yes	(B) [] No
15. IF YOU ANSWEWD	"YES" TO QUESTION 14, PLEASE INDICATE THE
APPROXIMATE NUMB	ER:
Mobiles	Portables
16. LIST THE FREQUE	NCIES (CHANNELS) FOR WHICH YOU NOW HOLD A VALID
FCC LICENSE: (List 800	O MHz frequencies in 117)
17 RRE YOU PRESENT	LY LICENSED ON EXISTING 800 MHz CHANNELS? IF YES.

LIST THEM:

AGENCY:			
		SECTION Iii	
		(CONT'D)	
AN APPLICATION (A) [] Yes	ON PENDING s (B)	? [] No	HANNELS, DO YOU HAVE TRUCT A 800 MHz SYSTEM?
		ed) (B) [] Plan incomplete.	
		A copy will be	
		forwarded by	
		(date)	
IMPLEMENTIN (A) [] Yes 21. IF NO, WHE (A) [] 12 Months (D) [] 48 Month 22. HOW MANY	G THE SYSTE S (B) [] No (Se N DO YOU AN S (B) [] 24 I S (E) [] 60 I ADDITIONA	e next question) NTICIPATE FUNDING WIL Months (C)[]36 Months Months or more	L BE AVAILABLE?
Now	In 1995	In 2005	
<u> </u>	HAT FREQUE	FREQUENCIES IN THE N NCIES THAT YOU NOW H E SPECIFIC: Frequency	
24. WHAT EXIS SPECIFIC.	TING FREQU	ENCIES WOULD YOU ATT	TEMPT TO RETAIN? BE
Frequency		Projected Use	

AGENCY:				
SECTIO	N III			
(CON	Γ'D)			
25. IF YOU ARE AWARDED THE ADDITIONAL FREQUENCIES YOU NEED IN THE 800 MHz SPECTRUM, UNLESS YOU ARE A CURRENT 800 MHz SYSTEM USER, YOU WILL HAVE TO PURCHASE A NEW COMMUNICATIONS SYSTEM. IF YOU COULD OBTAIN ADDITIONAL CHANNELS IN THE SPECTRUM YOU CURRENTLY USE, IT MAY BE POSSIBLE THAT A SIGNIFICANT PART OF YOUR CURRENT SYSTEM COULD CONTINUE TO BE USED. GIVEN THE OPTION, WHICH CHOICE WOULD YOU PREFER? (Select one): (A) [] Additional channels in the 800 MHz spectrum (B)[] Additional channels in my current spectrum 26. IF YOU SELECTED "CURRENT SPECTRUM," INDICATE THE SPECTRUM YOU ARE NOW USING. (A) [] 30-40 MHz (B) [] 40-50 MHz (C) [] 150-160 MHz (D) [] UHF 27. PLEASE LIST ANY OTHER AGENCIES/ORGANIZATIONS WITH WHOM YOU WOULD NEED RADIO COMMUNIUCATIONS IN THE EVENT OF A DISASTER OR LARGE SCALE EMERGENCY				
SECTIO	ON IV			
EQUIPM	MENT			
1. FOR THE FOLLOWING, PLEAS INDICATE AGENCY OWNS OR OPERATES NOW, AND MOBILE RADIOS *VOICE ENCRYPTION MOBILES PORTABLE (HANDHELD) RADIOS **VOICE ENCRYPTION PORTABLES MOBILE COMPUTER TERMINALS AUTOMATIC VEHICLE LOCATORS RADIO CONTROL LINKS RADIO ALARM/CONTROL SYSTEMS VEHICULAR REPEATERS TRANSMITTERS/REPEATERS (BASE STAT	PROJECT Now			

AGENCY:				-
SECTION	ON IV			
(CON	T'D)			
2. FOR THE FOLLOWING, PLEASE INDICA	TE THE M	AXIMUM NUI	MBER IN USE A	Г
ANY GIVEN TIME; AT PRESENT, AND PRO				-
,	Now	1995	2005	
MOBILE RADIOS				
*VOICE ENCRYPTION MOBILES				
PORTABLE (HANDHELD) RADIOS				
**VOICE ENCRYPTION PORTABLES				
MOBILE COMPUTER TERMINALS				
AUTOMATIC VEHICLE LOCATORS				
RADIO CONTROL LINKS				
RADIO ALARM/CONTROL SYSTEMS				
VEHICULAR REPEATERS				
TRANSMITTERS/REPEATERS (BASE STAT	TION)			
**************************************		ODII EG GIIO	III D FOLIAI	
*THE SUM OF MOBILES AND VOICE ENCI			ULD EQUAL	
THE TOTAL NUMBER OF MOBILES IN YO	UK SYSTEM	1.		

^{**}USE SAME METHODOLOGY NOTED ABOVE FOR MOBILES

APPENDIX

F

PROFESSIONAL ASSOCIATIONS RECEIVING ELIGIBLE USER SURVEY

STATE OF ILLINOIS

Metropolitan Ambulance Association Secretary, Dick Golden Reliable Ambulance 1733 W. Irving Park Chicago, IL 60606

Illinois Chapter-American Ambulance Association Attn: Chuck Engleman Advanced Ambulance 4700 W. Diversey Chicago, IL 60619

Illinois Association of Chiefs of Police Chief Duke Gorris Orland Park Police Department 14600 Ravinia Ave Or land Park, IL 60462

Illinois Sheriffs Association c/o Champaign County Sheriff's Office 204 E. Main Street Urbana, IL 61801 Attn: Sheriff Joseph T. Brown, President

Forestry Conservation Communications Association No current Illinois members Dick DeBello, President

Illinois Association of Fire Protection Districts 120 Lageschulte St. Barrington, IL 60010 Attn: Jennifer L. Surka, Administrative Secretary

A.A.S.H.T.O. c/o John Eden IDOT Springfield 2300 S. Dirksen Parkway Springfield, IL 62764 Illinois County and Township Official P.O. Box 455 Astoria, IL 61501 Attn: George Miller

Illinois Municipal League 1220 S. 7th Street Springfield, IL 62706

Illinois Fire Chiefs Association P.O. Box 7 Skokie, IL 60076 Attn: Jerry Burke, Executive Officer

Illinois Emergency Services Management Association c/o Lake County Office of Emergency Services 1303 N. Milwaukee Ave Libertyville, I1 b0048

Illinois Chapter of APCO Sherill Ornberg, Secretary Des Plaines Fire Department 405 S. River Road Des Plaines, IL 60016

PROFESSIONAL ASSOCIATION RECEIVING ELIGIBLE USER SURVEY

STATE OF INDIANA

Cal Gilvan Advanced Communications .& Electronics, Inc. 2028 S. Franklin South Bend, IN 46613

Jim Hull Emergency Radio Service P.O. Aox 110 Ligonier, IN 46767

Wayne Kopec Sharp Communications 1903 Lincolnway West South Bend, IN 46628

Allen Williams

Thompson's Communications 2400 West Ridge Road Gary, In 46408

Ann Metheny Lectracom, Inc. 15175 State Road Bourbon, In 46504

Robert Shepard General Electric company Mobile Communications Division 5610 Crawfordsville Road, Suite 1202 Indianapolis, In 46224

Bill Clancy General Electric Company 2015 Spring Road Oakbrook, IL 60522

Ron Goeller Motorola, Communications .& Electronics, Inc. 9240 N Meridian Street, Suite 190 Indianapolis, In 46260

Mr. Donald Mockler, Director Elkhart County Civil Defense 111 N. 3rd Street Goshen, In 46526

Mr. Willlam A. Dowell, Dlrectar Jasper County Civil Defense Courthouse Rensselaar, In 47978

Mr. Robert G. Lamprecht, Director Lake County Civil Defense 2702 West 35th Ave Gary, In 46408

Mr. Robert Bannwart, Director LaPorte County Civil Defense Courthouse LaPorte, In 46350 Mr. Crayton Holderead, Director Marshall County Civil Defense Box 456 Plymouth, In 46563

Mr. Scott McCord, Director Newton County Civil Defense 516 W. Main Street Brook, In 47922

Mr. Ronald N. Stevens, Director Porter County Civil Defense 154 Monroe Street Valparaiso, In 46383

Mr. Alvin C. Hale, Director Pulaski County Civil Defense Courthouse Winamac, In 46996

Mr. Donald H. Germann, Coordinator St. Joseph County Civil Defense Room 05, City-County Building South Bend, In 46601

Mr. James Lange, Director Starke County Civil Defense 812 S. Heaton Street Knox, In 46534

Indiana Veterinarian Medical Association 4901 Seville Court Indianapolis, In 46208

Indiana Department of Education School Traffic Safety, Attn: Bob Russell 291 East Ohio, 2 Market Square Center Indianapolis, IN 46204

Indiana Volunteer Fireman's Association Lawrence Swartz, President 407 West Jackson Street Rensselaer, In 47978 Indiana Association of Counties Richard Cockrum, Executive Director 120 Monument Circle. Suite 217 Indianapolis, In 46204

Indiana Association of Cities and Towns 150 West Market Street, Suite 600 Indianapolis, In 46204

PROFESSIONAL ASSOCIATIONS RECEIVING ELIGIBLE USER SURVEY

STATE OF WISCONSIN

Badger Sheriff's Association c/o Sheriff Leroy Klein 123 S. 5th Ave Sturgeon Bay, Wi 54235

Law Enforcement Bulletin Crime Information Bureau Director P.O. Box 2718 Madison, Wi 53701-2718 Wisconsin Chiefs of Police C/O Jerome Wolff 2000 N. Calhoun Rd Brookfield, Wi 53005

Wisconsin Law Enforcement Officers Association Tom Perschy 7202 Bergman Rd Sauk City, Wi 53583

Wisconsin Sheriff's & Deputies Association P.O. Box 145 Chippewa Falls, Wi 54729

Wisconsin County Police Association Peter Tubbs 352 Shady Dr. Oneida, Wi 54155

Wisconsin Police .% Sheriff Communications Association Walter Swiger P.O. Box 125

Brookfield, Wi 53008=0125

Wisconsin State Fire Chiefs' Association Secretary/Treasurer Cal Phillips 101 Court St Oshkosh, Wi 54901

Wisconsin State Firefighters' Association Wisconsin Fire Journal Box 606,R. 3, Golf Course Road Spring Green, Wi 53588

Badger Firemens Association The Dispatcher P.O. Box 911 Random Lake, Wi 53079

Wisconsin Emergency Management Association C/O Steve Golubic 410 S. Walnut St Appleton, Wi 54911

League of Wisconsin Municipalities The Municipality 122 Washington Ave Madison, Wi 53703

Wisconsin Towns Association Rte 4, Box 319 Shawano, Wi 54166

Crossroads, Transportation Information Center UW-Madison 432 N. Lake St Madison, Wi 53706

Wisconsin Counties Association Madison, Wi

Wisconsin State Medical Society 330 E. Lakeside Madison, Wi 53701

Wisconsin Emergency Medical Technician Association Box 787 Chetek, Wi 54728 Wisconsin Association for Developmental Disabilities 5522 University Ave Madison, Wi 53074

Wisconsin Veterinary Medical Association Milwaukee District President Michael Speas DVM 549 W. Grand Ave Port Washington, Wi 53074

American Red Cross Greater Milwaukee Chapter Headquarters 2600 W. Wisconsin Ave Milwaukee, Wi

Wisconsin School Bus Association P.O. Box 168 Sheboygan, WI 53082-0186

Wisconsin Bell Inc. William M. Jermain Jr., General Manager Network Planning S. Engineering 14th Floor, 722 N. Broadway Milwaukee, Wi 53202

Dan Eklof Wisconsin Division of Health & Social Services EMS Section P.O. Box 309 Madison, Wi 53701-0309

Hike Vertanen Motorola 1215 Washington St. Two Rivers, Wi

PROFESSIONAL ASSOCIATIONS RECEIVING ELIGIBLE USER SURVEY

STATE OF MICHIGAN

Michigan Sheriff's Association 1410 E. Kalamazoo Lansing, Mi 48912

Michigan Association of Chiefs of Police

2248 Mt. Hope Okemos, Mi 48864

Michigan Association of Counties 319 W. Lenawee Lansing, Mi 48933

Michigan Association of Emergency Medical Technicians 209 Seymore Lansing, Mi 48933

Michigan Association of School Boards 421 W. Kalamazoo Lansing, Mi 48933

Michigan Townships Association 3121 W. Saginaw Lansing, Mi 48917

APPENDIX

G

SOUTHERN LAKE MICHIGAN 800 MHz REGIONAL PLANNING COMMITTEE

RADIO USER QUESTIONNAIRE RESULTS

OCTOBER 20, 1988

The body of this report contains TOTAL COUNTS of agencies responding to almost every question on the Radio User Survey. It is constructed in the same manner as the questionnaire itself. That is, the Section and Question numbers listed in this report correspond to the Section and Question numbers in the survey. Questions in the survey which asked for remarks, explanations, etc. are not contained in this report. However, the answers are stored on computer floppy diskettes should they need to be examined.

At the end of this report are several Attachments. These provide specific information for certain questions which I thought the Committee might want now. For example, Attachment "D" lists those agencies that said they are currently licensed on 800 MHz channels; Attachment "E" lists those agencies reporting that they have already filed an application for a license in the 800 MHz spectrum.

As you peruse the results contained in this report, make note of further questions that occur to you. Each returned questionnaire has been entered into the computer in DBase III, and the database can be searched in more detail.

Sergeant Michael J. Celeski Administrative Subcommittee SLM8OOMHzRPC (312)421-4803

SECTION I

1. AGENCIES SUBMITTING RESPONSES

From Wisconsin: 193 From Illinois: 189 From Indiana: 11 From Michigan: 99

TOTAL 492

Agency names and their city/town are listed in Attachment A.

7. TYPE OF ORGANIZATION

Governmental: 452 Private: 40

8. TYPE OF SERVICE

Law Enforcement: 253 Fire Fighting: 249

Emergency Medical: 231 Highway Maintenance: 87

Forestry/Conservation: 24 Civil Defense: 133
Beach Patrol: 26 Disaster Relief: 36
Handicapped Assistance: 24 School Bus: 7

Veterinarian: 10

9. USE A MULTI-AGENCY DISPATCH SERVICE

268

SECTION II

1. STATE(S) AGENCY OPERATES IN

WI: 193 IL: 189 IN: 11 MI: 99

2. AGENCIES THAT PROVIDE SERVICE STATEWIDE

8

Agency names are listed in Attachment B

7. TYPE OF SERVICE AREA

URBAN: 185 RURAL: 72 BOTH: 213

8. SIZE OF SERVICE AREA

Up to 5 Sq. Miles: 126 6 to 10 Sq. Miles: 63 11 to 50 Sq. Miles: 138 51 to 100 Sq. Miles: 33 101 to 200 Sq. Miles: 18 201 to 300 Sq. Miles: 16 301 to 500 Sq. Miles: 9 501 to 1000Sq. Miles: 39 More than 1000 Sq. Miles: 14

9. CURRENT POPULATION OF SERVICE AREA

Up to 5,000: 109 5,000 to 10,000: 73 10,000 to 25,000: 112 25,000 to 50,000: 55 50,000 to 100,000: 47 29 100,000 to 250,000: 250,000 to 500,000: 18 500,000 to 1,000,000: 6 More than 1,000,000: 8

10. PROJECTED POPULATION FIGURES

County population projections are listed in Attachment C

SECTION III

1. RADIO SYSTEM IS NOT ADEQUATE FOR THEIR NEEDS

Today: 176 (35.7%) In 1995: 162 (67.1%) In 2005: 378 (76.8%)

2. PLANS TO CHANGE THEIR RADIO SYSTEM IN THE FUTURE

283 (57.5%)

4. HAVE HAD TO USE AN ALTERNATIVE METHOD OF DISPATCH BECAUSE OF SPECTRUM UNAVAILABILITY

78 (15.8%)

6. HAVE HAD TO BORROW, SHARE, OR LEASE RADIO FREQUENCIES 121 (24.6%)

8. HOW OFTEN EXPERIENCE "WAIT TIME" TO ACCESS A RADIO CHANNEL FOR VOICE TRANSMISSIONS FROM THE FIELD

Never: 100 (20.3%) Seldom: 117 (23.8%) Sometimes: 96 (19.5%)

Often: 64 (33.3%)

9. AVERAGE VOICE TRANSMISSIONS PER NORMAL HOUR

Up to 5: 137 6 to 10: 67 11 to 25: 81 26 to 50: 65 51 to 100: 39 101 to 200: 22 201 to 500: 17 501 to 1,000: 1 More than 1.000: 2

10. POTENTIAL NUMBER OF VOICE TRANSMISSIONS IN BUSIEST HOUR UP

Up to 5: 27 6 to 10: 39 11 to 25: 86 26 to 50: 93 51 to 100: 79 101 to 200: 48 201 to 500: 34 501 to 1,000: 16 More than 1.000: 4

11. AVERAGE LENGTH OF AIR TIME FOR VOICE TRANSMISSIONS

Up to 5 Seconds: 63 6 to 10 Seconds: 104 11 to 15 Seconds: 83 16 to 20 Seconds: 41 21 to 25 Seconds: 7 26 to 30 Seconds: 63 31 to 35 Seconds: 2 36 to 40 Seconds: 4 41 to 45 Seconds: 7 46 to 50 Seconds: 1 51 to 55 Seconds: 1 56 to 60 Seconds: 38 More than 60 Seconds: 31

12. HAVE PLANS TO EXPAND THEIR USE OF RADIO FREQUENCIES FOR DATA TRANSMISSIONS

169 (34.3%)

- 13. HAVE PLANS TO USE VOICE ENCRYPTION TECHNOLOGY: 110 (22.3%)
- 14. PLANS TO INCORPORATE "TELEPHONE INTERCONNECTS" INTO THEIR RADIO SYSTEM:

130 (26.4%)

15. NUMBER OF UNITS TO BE EQUIPPED WITH TELEPHONE INTERCONNECTS

Mobiles: 2019 Portables: 2183

17. AGENCIES CURRENTLY LICENSED ON 800 MHz CHANNELS

40

Agency names are listed in Attachment D

18. HAVE AN APPLICATION FOR 800 MHz CHANNELS PENDING

4

Agency names are listed in Attachment E

19. HAVE A FORMAL PLAN ON FILE

yes: 6 Plan Incomplete: 14 No: 418

Agency names for "Yes" & "Incomplete" are listed in Attachment F.

20. HAVE FUNDS AVAILABLE NOW TO IMPLEMENT SYSTEM

30

Agency names are listed in Attachment G

21. ANTICIPATE FUNDING FOR NEW SYSTEM

In 12 Months: 12 In 24 Months: 26 In 36 Months: 28 In 48 Months: 9

60 Months or More: 129

Agency names for "12Months & 24 Months" are listed in Attachment H

22. ADDITIONAL 800 MHz FREQUENCIES NEEDED

Now: 425 In 1995: 684 In 2005: 1017

Agencies needing 1 to 4 frequencies now---Attachment I Agencies needing 4 to 10 frequencies now---Attachment J Agencies needing 11 or more frequencies now---Attachment K

25. CHOICE OF ADDITIONAL CHANNELS

In 800 MHz spectrum: 96 In current spectrum: 281

Agencies requesting additional channels in 800 MHz spectrum are listed in Attachment I..

26. CURRENT SPECTRUM RANGES BEING USED NOW

- (A) 30to 40MH2: 10 (B) 60 to 50 MHz: 38
- (C) 150 to 160 MHz: 209 (D) UHF: 33

21

(A) + (B) + (C) + (D): 1 (A)+(B)+(C): (A)+(B)+(D): 0 (A)+(C)+(D): 1 (B)+(C)+(D): 3 (A)+(B): 2 (A)+(C): 4 (A)+(D): 0 (B)+(C): 19 (B)+(D): 3

(C)+(D):

SECTION IV

1. TOTALS OF EQUIPMENT OWNED OR OPERATED NOW

	Now	1995	2005
MOBILE RADIOS	37219	42886	49062
VOICE ENCRYPTION MOBILES	718	3660	5683
PORTABLE (HANDHELD) RADIOS	29061	35692	41517
VOICE ENCRYPTION PORTABLES	606	4058	6136
MOBILE COMPUTER TERMINALS	528	6073	12684
AUTOMATIC VEHICLE LOCATORS	30	3307	10785
RADIO CONTROL LINKS	201	656	1036
RADIO ALARM/CONTROL SYSTEMS	504	980	1788
VEHICULAR REPEATERS	3589	4897	6920
TRANSMITTERS/REPEATERS (BASE STA	TION) 1927	2254	2639

2. TOTALS OF EQUIPMENT POTENTIALLY IN USE AT ONE TIME

	Now	1995	2005
MOBILE RADIOS	21606	23245	25820
VOICE ENCRYPTION MOBILES	586	2000	2952
PORTABLE (HANDHELD) RADIOS	18030	19074	23927
VOICE ENCRYPTION PORTABLES	408	1617	3685
MOBILE COMPUTER TERMINALS	438	4687	8933
AUTOMATIC VEHICLE LOCATORS	42	2203	3923
RADIO CONTROL LINKS	197	589	936
RADIO ALARM/CONTROL SYSTEMS	479	746	1468
VEHICULAR REPEATERS	1748	2471	3394
TRANSMITTERS/REPEATERS (BASE STA	TION) 1545	1859	2157

RESPONDING AGENCIES

AGENCY

GURNEE POLICE DEPARTMENT	GURNEE
QUADCOM	CARPENTERSVILLE
LINCOLNWOOD POLICE DEPARTMENT	LINCOLNWOOD
VILLAGE OF CLARENDON HILLS	CLAREDON HILLS
CITY OF NAPERVILLE-ESDA	NAPERVILLE
FOREST PARK POLICE DEPARTMENT	FOREST PARK
LAGRANGE POLICE DEPARTMENT	LAGRANGE
HARVARD POLICE DEPARTMENT	HARVARD
WEST CHICAGO POLICE DEPARTMENT	WEST CHICAGO
TRI-COM CENTRAL DISPATCH SYSTEM	GENEVA
CITY OF MCHENRY POLICE DEPARTMENT	MCHENRY

RIVER FOREST POLICE DEPARTMENT
VILLAGE OF FOX LAKE POLICE
RIVERDALE POLICE DEPARTMENT
RIVER FOREST
FOX LAKE
RIVERDALE

SOUTH HOLLAND POLICE DEPARTMENT SOUTH HOLLAND

WILL COUNTY SHERIFF'S DEPT. JOLIET

DUPAGE COUNTY-OFFICE OF EMERGENCY MANAGEMENT WHEATON

WILL COUNTY ESDA
ZION POLICE DEPARTMENT
GRUNDY COUNTY SHERIFF'S POLICE
SOMONAUK POLICE DEPT.
DEKALB COUNTY SHERIFF'S POLICE
SYCAMORE

BARRINGTON HILLS POLICE DEPT.

BARRINGTON HILLS

CRETE POLICE DEPT. CRETE

HICKORY HILLS POLICE DEPT.

HINSDALE POLICE DEPT.

SHOREWOOD POLICE DEPT.

HICKORY HILLS

HINSDALE

SHOREWOOD

GLENDALE HEIGHTS POLICE DEPT. GLENDALE HEIGHTS

NILES POLICE DEPT. NILES

LINCOLNWAY POLICE CCMM. CENTER
FRANKFORT POLICE DEPT.
NEW LENOX POLICE DEPT.
OAK PARK POLICE DEPT.
OAK PARK

CARY POLICE DEPARTMENT CARY
AURORA POLICE DEPARTMENT AURORA

CITY OF CRYSTAL LAKE (POLICE DEPT.) CRYSTAL LAKE MANHATTAN POLICE DEPARTMENT **MANHATTAN BROOKFIELD POLICE DEPARTMENT BROOKFIELD HUNTLEY POLICE DEPARTMENT** HUNTLEY WESTMONT POLICE DEPARTMENT **WESTMONT** WINNEBAGO COUNTY SHERIFF'S POLICE ROCKFORD VILLAGE OF KILDEEN KILDEEN COAL CITY POLICE DEPARTMENT **COAL CITY**

YORKVILLE POLICE DEPARTMENT
YORKVILLE POLICE DEPARTMENT
MCHENRY COUNTY SHERIFF 'S POLICE
WOODSTOCK
ELGIN DUDG GARETTY COMMUNICATIONS

ELGIN PUBLIC SAFETY COMMUNICATIONS ELGIN

BURR RIDGE POLICE DEPARTMENT
WILMINGTON POLICE DEPARTMENT
SWOKIE POLICE & FIRE COMMUNICATIONS
SWOKIE

SKOKIE POLICE & FIRE COMMUNICATIONS SKOKIE

BARRINGTON POLICE DEPARTMENT
MORTON GROVE POLICE
BARRINGTON
MORTON GROVE

WHEELING POLICE DEPARTMENT

LYNWOOD POLICE DEPARTMENT

BURBANK POLICE DEPARTMENT

BELVIDERE POLICE/BOONE COUNTY SHERIFF

DUPAGE COUNTY SHERIFF'S DEPARTMENT

EVANSTON POLICE DEPARTMENT

WHEELING

LYNWOOD

BURBANK

BELVIDERE

BELVIDERE

WHEATON

EVANSTON

COUNTY OF LAKE, ILLINOIS RADIO DEPT. RIVERSIDE POLICE DEPARTMENT WARRENVILLE POLICE DEPARTMENT **BOURBONNAIS POLICE DEPARTMENT** LYONS POLICE DEPARTMNET PALOS HILLS POLICE DEPARTMENT WOODSTOCK POLICE DEPARTMENT GOLF POLICE DEPARTMENT DEERFIELD POLICE DEPARTMENT WOODRIDGE POLICE DEPARTMENT **BOLINGBROOK POLICE DEPARTMENT** BEDFORD PARK POLICE DEPARTMENT BLOOMINGDALE POLICE DEPARTMENT ALSIP POLICE DEPARTMENT ROLLING MEADOWS POLICE DEPARTMENT SOUTH ELGIN POLICE DEPARTMENT HAMPSHIRE POLICE DEPARTMENT ITASCA POLICE DEPARTMENT ORLAND HILLS POLICE DEPARTMENT ROSELLE POLICE DEPARTMENT **BRADLEY POLICE DEPARTMENT** LAGRANGE PARK POLICE DEPARTMENT ADDISON POLICE DEPARTMENT THORNTON POLICE DEPARTMENT **DU-COMM CENTRAL DISPATCH** ROSEMONT DEPARTMENT OF PUBLIC SAFETY ELK GROVE VILLAGE POLICE/FIRE WESTCHESTER POLICE DEPARTMENT VILLAGE OF WILMETTE FIRE DEPARTMENT BERWYN POLICE DEPARTMENT RICHTON PARK POLICE DEPARTMENT

BUFFALO GROVE FIRE DEPARTMENT

NORTH CHICAGO POLICE DEPARTMENT

CITY OF ST. CHARLES FIRE DEPARTMENT

ROLLING MEADOWS FIRE DEPARTMENT

HOMETOWN PIPE PROTECTION DISTRICT

WOODSTOCK CITY FIRE DEPARTMENT

WINNETKA POLICE DEPARTMENT

WEST DUNDEE FIRE DEPARTMENT

MONTGOMERY POLICE DEPARTMENT

BOLINGBROOK FIRE DEPARTMENT

VILLAGE OF DOWNERS GROVE

WILLOWBROOK POLICE

GURNEE FIRE DEPARTMENT

ALGONQUIN-LAKE IN THE HILLS FIRE PROTECT

VILLAGE OF SCHAUMBURG POLICE DEPARTMENT

BOURBONNAIS LYONS PALOS HILLS WOODSTOCK **GOLF** DEERFIELD WOODRIDGE **BOLINGBROOK BEDFORD PARK BLOOMINGDALE** ALS IP **ROLLING MEADOWS SOUTH ELGIN HAMPSHIRE ITASCA ORLAND HILLS** ROSELLE **BRADLEY** LAGRANGE PARK ADDISON THORNTON WHEATON ROSEMONT **ELK GROVE** WESTCHESTER WILMETTE **BERWYN** RICHTON PARK **BUFFALO GROVE** ALGONQUIN NORTH CHICAGO MONTGOMERY **DOWNERS GROVE** BOLINGBROOK ST. CHARLES SCHAUMBURG ROLLING MEADOWS WILLOWBROOK WOODSTOCK GURNEE WINNETKA WEST DUNDEE **HOMETOWN**

LIBERTYVILLE

WARRENVILLE

RIVERSIDE

CHERRY VALLEY POLICE DEPARTMENT

ELMWOOD PARK FIRE DEPARTMENT

FOREST VIEW FIRE DEPARTMENT

CHERRY VALLEY

ELMWOOD

FOREST VIEW

MCHENRY COUNTY ESDA

UNIVERSITY PARK FIRE DEPARTMENT UNIVERSITY PARK

VILLAGE OF BROOKFIELD FIRE DEPARTMENT
NAPERVILLE POLICE DEPARTMENT
NAPERVILLE FIRE DEPARTMENT
NAPERVILLE
BERKELEY POLICE DEPARTMENT
LAKE BLUFF FIRE DEPARTMENT
LEYDEN FIRE PROTECTION DISTRICT
GLENBROOK FIRE DEPARTMENT
GLENVIEW

BROOKFIED
NAPERVILLE
BERKELEY
LAKE BLUFF
LEYDEN FIRE DEPARTMENT
GLENVIEW

DOWNERS GROVE FIRE DEPARTMENT DOWNERS GROVE

PINGREE GROVE & COUNTRYSIDE FIRE PROTECTION ELGIN

NORRIDGE POLICE DEPARTMENT NORRIDGE OAK FOREST POLICE DEPARTMENT OAK FOREST

ELGIN FIRE DEPARTMENT
CARY FIRE PROTECTION DISTRICT
NEWARK FIRE PROTECTION DISTRICT
NEWARK
GLENWOOD FIRE DEPARTMENT
KANKAKEE COUNTY SHERIFF'S POLICE
VILLAGE GF WESTMONT EMERGENCY SERVICES

ELGIN
CARY
NEWARK
GLENWOOD
KANKAKEE
WESTMONT

NORTH RIVERSIDE FIRE DEPARTMENT

CALUMET CITY POLICE DEPARTMENT

PALOS HEIGHTS FIRE PROTECTION DISTRICT

CHICAGO HEIGHTS FIRE DEPARTMENT

NORTH RIVERSIDE

CALUMET CITY

PALOS HEIGHTS

CHICAGO HEIGHTS

ADDISON FIRE PROTECTION DISTRICT #1 ADDISON

CARPENTERSVILLE & COUNTRYSIDE FIRE PROTECTION CARENTERSVILLE

ILLINOIS STATE TOLL HIGHWAY AUTHORITY

BENSENVILLE ESDA

OAK BROOK

BENSENVILLE

NORWOOD PARK FIRE DEPARTMENT HARWOOD HEIGHTS

BROADVIEW FIRE DEPARTMENT

NORTHLAKE FIRE DEPARTMENT

FOREST PARK FIRE DEPARTMENT

BOURBONNAIS FIRE PROTECTION DISTRICT

MORTON GROVE FIRE DEPARTMENT

BROADVIEW

NORTHLAKE

FOREST PARK

BOURBONNAIS

MORTON GROVE

ITASCA FIRE PROTECTION DISTRICT #1 ITASCA

CHICAGO HEIGHTS POLICE DEPARTMENT CHICAGO HEIGHTS HIGHLAND PARK FIRE DEPARMTENT HIGHLAND PARK

CITY OF DARIEN DARIEN

RICH TOWNSHIP ESDA

GRAYSLAKE FIRE PROTECTION DISTRICT

DARIEN-WOODRIDGE FIRE PROTECTION DISTRICT

WAUKEGAN FIRE DEPARTMENT

SOUTHWEST CENTRAL DISPATCH

RICHTON PARK

GRAYSLAKE

DARIEN

WAUKEGAN

PALOS HEIGHTS

VILLAGE OF BROOKFIELD EMERGENCY SERVICES DISP BROOKFIELD

BRADLEY FIRE DEPARTMENT BRADLEY KANKAKEE FIRE DEPARTMENT **KANKAKEE** VILLAGE OF GLEN ELLYN **GLEN ELLYN DEKALB CITY POLICE DEKALB** NEW LENOX FIRE DEPARTMENT **NEW LENOX** WINNETKA FIRE DEPARTYENT WINNETKA ARGONNE NATIONAL LABORATORY **ARGONNE** CHICAGC POLICE DEPARTMENT **CHICAGO** HAINESVILLE POLICE DEPARTMENT **GRAYSLAKE** FLOSSMOOR POLICE DEPARTMENT **FLOSSMOOR** CHICAGO FIRE DEPARTMENT **CHICAGO DEKALB FIRE DEPARTMENT DEKALB BRIDGEVIEW FIRE DEPARTMENT BRIDGEVIEW** PROSPECT HEIGHTS FIRE PROTECTION DISTRICT PROSPECT HEIGHTS GLENCOE DEPARTMENT OF PUBLIC SAFETY **GLENCOE** FRANKFORT FIRE DEPT. & FIRE PROTECTION DIST. FRANKFORT HOMEWOOD POLICE DEPARTMENT **HOMEWOOD** RICHTON PARK FIRE DEPARTMENT RICHTON PARK VILLAGE OF TINLEY PARK TINLEY PARK PALATINE POLICE DEPARTMENT PALATINE WOOD DALE WOOD DALE FIRE PROTECTION DISTRICT # 1 KANE COUNTY ESDA **GENEVA** BEDFORD PARK POLICE DEPARTMENT **BEDFORD PARK** OSWEGO FIRE PROTECTION DISTRICT **OSWEGO** LAKE COUNTY E.S.D.A. LIBERTYVILLE BENSENVILLE POLICE DEPARTMENT BENSENVILLE MORRIS POLICE DEPARTMENT **MORRIS** TRI-STATE FIRE PROTECTION DISTRICT **DARIEN** ITASCA POLICE DEPARTMENT **ITASCA** CHANNAHON FIRE PROTECTION DISTRICT **CHANNAHON** LAGRANGE PARK FIRE DEPARTMENT LAGRANGE PARK CITY OF JOLIET FIRE DEPARTMENT **JOLIET** FERMI NATIONAL ACCELERATOR LABORATORY **BATAVIA** STATE OF ILLINOIS **SPRINGFIELD ILLINOIS STATE POLICE SPRINGFIELD** ROSCOE POLICE DEPARTMENT ROSCOE CRESTWOO FIRE DEPARTMENT CRESTWOOD CITY OF CHICAGO DEPARTMENT OF AVIATION CHICAGO VILLAGE OFDOOLTON DOLTON **CITY OF CHICAGO-STREETS & SANITATION CHICAGO** LAPORTE CCUNTY POLICE DEPARTMENT LAPORTE CITY OF SOUTH SEND-BUREAU OF COMMUNICATIONS SOUTH BEND HAMMOND POLICE DEPARTMENT **HAMMOND** INDIANA STATE POLICE **INDIANAPOLIS** INDIANA DEPT. OF HIGHWAYS-TOLL ROAD DIVISION **GRANGER**

CROWN POINT

LAKE COUNTY SHERIFF'S DEPT

ELKHART COUNTY PUBLIC SAFETY COMM. CENTER

EAST CHICAGO POLICE DEPARTMENT EAST CHICAGO

GARY FIRE DEPARTMENT

CITY OF GARY

MUNSTER POLICE DEPARTMENT

ST.OF WIS. DEPT. OF HEALTH AND SOCIAL SER.

WISCONSIN STATE CAPITOL POLICE

DEFOREST FIRE DEPARTMENT MIDDLETON POLICE DEPARTMENT

CITY OF STOUGHTON FIRE DEPARTMENT

MONONA FIRE DEPARTMENT

TOWN OF MADISON FIRE DEPARTMENT

DANE COUNTY REGIONAL AIRPORT

CITY OF MADISON FIRE DEPGRTMENT

DANE COUNTY SHERIFF

CITY OF DANE

CITY OF MADISON COMMUNICATIONS

STOUGHTON POLICE DEPARTMENT

VILLAGE OF MAZOMANIE POLICE DEPARTMENT

CITY OF MADISON

DODGE COUNTY COMMUMICATIONS

NEOSHA FIRE DEPARTMENT

MAYVILLE POLICE DEPARTMENT

THERESA FIRE DEPARTMENT

ASHIPPON HIGHWAY DEPARTMENT

BROWNSVILLE VETERINARY CLINIC

THERESA POLICE DEPARTMENT

KNOWLES FIRE DEPARTMENT **BROWNSVILLE FIRE COMPANY**

HUSTISFORD VOL. FIRE DEPARTMENT

TOWN OF RUBICON

BEAVER DAM FIRE DEPARTMENT

REESEVIILLE F1RE DEPARTMENT

ASHIPPUN FIRE DEPARTMENT

HORICON EMERGENCY MEDICAL SERVICES

TOWN OF EMMET

JEFFERSON VETERINARY CLINIC

VILLAGE OF SULLIVAN

IXONIA FIRE DEPT. & EMS SERVICE

JEFFERSON COUNTY SHERIFF

HELENVILLE FIRE DEPARTMENT

JEFFERSON POLICE DEPARTMENT

FORT ATKINSON POLICE DEPT.

FORT ATKINSON FIRE DEPARTMEMT

WATERLOO FIRE DEPARTMENT

KENOSHA WATER UTILITY

GOSHEN

GARY

GARY

MUNSTER

MADISON

MADISON

DEFOREST

MIDDLETON

STOUGHTON

MONONA

MADISON

MADISON

MADISON

MADISON

MADISON

MADISON

STOUGHTON

MAZOMANIE

MADISON

JUNEAU

NEOSHA

MAYVILLE

THERESA

ASHIPPON BROWNSVILLE

THERESA

KNOWLES

BROWNSVILLE

HUSTISFORD

RUBICON

BEAVER DAM

REESEVILLE

ASHIPPUN

HORICON

WATERTOWN

JEFFERSON

SULLIVAN

IXONIA

JEFFERSON

HELENVILLE **JEFFERSON**

FORT ATKINSON

FORT ATKINSON

WATERLOO

KENOSHA

KENOSHA COUNTY SHERIFF'S DEPT. CENTRAL HIGH SCHOOL/WESTOSHA

TOWN OF SALEM

MED-TECH AMBULANCE

KENOSHA COUNTY FAIR POLICE, INC.

KENOSHA HOSPITAL AND MEDICAL CENTER

FOX POINT DEPT. OF PUBLIC SAFETY

BELL AMBULANCE

MILWAUKEE COUNTY HIGHWAY DEPT.

MEQUON POLICE DEPARTMENT SAUKVILLE FIRE DEPARTMENT

CITY OF CEDARBURG EMERGENCY GOVT.

GRAFTON VOLUNTEER FIRE DEPARTMENT, INC.

OZAUKEE COUNTY SHERIFF'S DEPARTMENT

THIENSVILLE POLICE DEFARTMENT SUN PRAIRIE POLICE DEPARTMENT MARSHALL POLICE DEPARTMEMT

UNIVERSITY POLICE & SECURITY-MADISON

BURLINGTON FIRE DEPARTMENT RACCINE UNIFIED SCHOOL DISTRICT

CALEDONIA FIRE DEPARTMENT

CITY OF RACINE-DEPT. OF PUBLIC WORKS MILTON & MILTON TOWNSHIP FIRE DEPT.

EVANSVILLE POLICE DEPARTMENT JANESVILLE FIRE DEPARTMENT MERCY HOSPITAL OF JANESVILLE

CITY OF WHITEWATER

WHITEWATER POLICE DEPARTMENT

VILLAGE OF DARIEN POLIC DEPARTMENT

HARTLAND FIRE DEPARTMENT CITY OF BROOKFIELD FIRE DEFT.

WAUKESHA COUNTY SHERIFF DEPARTMENT CITY OF WAUKESHA, PUBLIC WORKS DEPT.

BIG BEND POLICE DEPT.

WAUKESHA COUNTY PROGRAM ON AGING

TESS CORNERS FIRE DEPT.

VILLAGE OF BIG BEND

CITY OF OCONOMOWOC-DPW

WAUKESHA WASTEWATER TREATMENT PLANT

BIG BEND-VERNON VOL. FIRE DEPT.

NASHOTAH FIRE DEPT. WAUKESHA POLICE DEPT.

WAUKESHA COUNTY

TOWN OF PEWAUKEE POLICE DEPT.
TOWN OF PEWAUKEE HIGHWAY DEPT.

SANITARY DISTRICT NO.3, TN. OF PEWAUKEE

KENOSHA

SALEM SALEM

KENOSHA

SALEM

KENOSHA

MILWAUKEE

MILWAUKEE

MILWAUKEE

WAUWATOSA

MEQUON

SAUKVILLE CEDARBURG

GRAFTON

PORT WASHINGTON

THIENSVILLE SUN PRAIRIE MARSHALL MADISON

BURLINGTON

RACINE

CALEDONIA

RACINE

MILTON EVANSVILLE

JANESVILLE

JANESVILLE

WHITEWATER WHITEWATER

DARIEN

HARTLAND

BROOKFI ELD

WAUKESHA

WAUKESHA

BIG BEND

WAUKESHA

MUSKEGO

BIG BEND

OCONOMOWOC

WAUKESHA

BIG BEND

NASHOTAH

WAUKESHA

WAUKESHA

PEWAUKEE

PEWAUKEE

PEWGUKEE

CITY OF BROOKFIELD POLICE DEPT. **BROOKFIELD** WAUKESHA COUNTY HIGHWAY DEPT. WAUKESHA NEW BERLIN POLICE DEPARTMENT **NEW BERLIN** VILLAGE OF BUTLER POLICE DEPARTMENT **BUTLER** WAUKESHA COUNTY PARK & PLANNING WAUKESHA WAUKESHA FIRE DEPT. WAUKESHA MERTON VOL. FIRE DEPT., INC. **MERTON** CITY OF WAUKESHA POLICE DEPT. WAUKESHA TOWN OF VERNON **BIG BEND BAYSIDE POLICE/FIRE COUNTRY VETERINARY CLINIC RUBICON** COLUMBUS COUNTRYSIDE VETERINARY CLINIC COLUMBUS DODGELAND VETERINARY CLINIC JUNEAU LOMIRA FIRE DEPARTMENT LOMIRA **TOWN OF LOWELL** JUNEAU TOWN OF TRENTON **WAUPUM** CITY OF JUNEAU POLICE DEPARTMENT JUNEAU RANDOLPH POLICE DEPARTMENT **RANDOLPH BEAVER DAM VETERINARY CLINIC BEAVER DAM** E!?ERGENCY GOVERNMENT/PARKS **JEFFERSON** WATERTOWN POLICE DEPARTMENT WATERTOWN WATERTOWN MEMORIAL HOSPITAL WATERTOWN CITY OF LAKE MILLS POLICE DEPARTMENT **LAKE MILLS** WATERTOWN FIRE DEPARTMENT WATERTOWN WATERTOWN STREET DEPARTMENT WATERTOWN JEFFERSON COUNTY HIGHWAY DEPARTMENT JEFFERSON. **RUTZ AMBULANCE SERVICE** FORT ATK INSON LAKE MILLS EMERGERNCY MEDICAL SERVICE LAKE MILLS FORT ATKINSON MEMORIAL HOSPITAL FORT ATKINSON MILWAUKEE COUNTY TRANSIT SYSTEM **MILWAUKEE** MILWAUKEE COUNTY SHERIFF'S DEPARTMENT MILWAUKEE WEST ALLIS POLICE DEPARTMENT WEST ALLIS FRANKLIN POLICE DEPARTMENT FRANKLIN CITY OF CUDAHY DEPARTMENT OF PUBLIC WORKS **CUDAHY** WEST MILWAUKEE FIRE DEPARTMENT **MILWAUKEE** ST. FRANCIS POLICE DEPARTMENT ST. FRANCIS ST. FANCIS FIRE DEPARTMENT ST. FRANCIS HALES CORNERS POLICE DEPARTMENT **HALES CORNERS CUDAHY FIRE DEPARTMENT** CUDAHY SOUTH MILWAUKEE FIRE DEPARTMENT **SOUTH MILWAUKEE** CITY OF WAUWATOSA AMERICAN MEDICAL TRANSPORT OF WISCONSIN **MILWAUKEE** VILLAGE OF SHOREWOOD **SHOREWOOD** SOUTH MILWAUKEE POLICE DEFARTMENT **SOUTH MILWAUKEE** CITY OF GLENDALE DEPARTMENT OF PUBLIC WORKS GLENDALE SUBURBAN SERVICES INC. (BESTWAY BUS CO.) **OAK CREEK**

JOY FARM TRANSPORTATION MILWAUKEE VILLAGE OF WEST MILWAUKEE POLICE DEPARTMENT MILWAUKEE WHITEFISH BAY POLICE DEPARTMENT WHITEFISH MEDA CARE AMBULANCE **MILWAUKEE** CITY OF GLENDALE FIRE DEPARTMENT **GLENDALE CUDAHY POLICE DEPARTMENT** CUDAHY GREENFIELD POLICE DEPARTMEMT **GREENFIELD** OAK CREEK FIRE DEPARTMENT OAK CREEK WEST ALLIS FIRE DEPARTMENT WEST ALLIS BROWN DEER POLICE DEPARTMENT **BROWN DEER** SHOREWOOD POLICE AND FIRE DEPARTMENTS **SHOREWOOD GRAFTON POLICE DEPARTMENT GRAFTON** PORT WASHINGTON FIRE DEPARTMENT **PORT WASHINGTON** WAUBEKA FIRE DEPARTMENT WAUBEKA CEDARBURG POLICE DEPARTMENT **CEDARBURG** UNION GROVE-YOREVILLE FIRE AND RESCUE **UNION GROVE** RACINE FIRE DEPARTMENT **RACINE BURLINGTON POLICE DEPARTMENT BURLINGTON** RACINE POLICE DEPARTMENT RACINE TOWN OF WATERFORD POLICE DEPARTMENT WATERFORD RACINE COUNTY SHERIFF'S DEPARTMENT RACINE CALEDONIA POLICE DEPARTMENT **CALEDONIA** ST. LUKES MEMORIAL HOSPITAL INC. **RACINE** MOUNT PLEASANT POLICE DEPARTMENT RACINE MEMORIAL HOSPITAL CORPORATION OF BURLINGTON BURLINGTON STURTEVANT POLICE DEPARTMENT **STURTEVANT** OCONOMOWOC POLICE DEPARTMENT OCONOMOWOC WAUKESHA COUNTY MAINTENANCE DEPARTMENT WAUKESHA WAUKESHA PARK AND RECREATION WAUKESHA NEW BERLIN FIRE DEPARTMENT **NEW BERLINE** CITY OF DELAFIELD DEPARTMENT OF POLICE DELAFIELD VILLAGE OF CHENEQUA POLICE DEPARTMENT **HARTLAND** HARTLAND POLICE DEPARTMENT HARTLAND VILLAGE OF HARTLAND DEPT. CF PUBLIC WORKS **HARTLAND** CITY OF OCONOMOWOC FIRE DEPARTMENT OCONOMOWOC TROY CENTER VOLUNTEER FIRE DEPARTMENT **EAST TROY** VILLAGE OF PADDOCK LAKE SALEM LYONS TOWNSHIP FIRE DEPARTMENT **LYONS** VILLAGE OF BAYSIDE DEPT. OF PUBLIC WORKS BAYSIDE JOHNSON SCHOOL BUS SERVICES INC. **WEST BEND** VILLAGE OF EAST TROY POLICE DEPARTMENT EAST TROY GENOA CITY FIRE DEPARTMENT **GENOA CITY** PLEASANT PRAIRIE FIRE/RESCUE DEPARTMENT KENOSHA LAKE GENEVA POLICE DEPARTMENT LAKE GENEVA TOWN OF RANDALL FIRE DEPARTMENT BASSETT LAUDERDALE-LAGRANGE FIRE DEPARTMENT WHITEWATER

DARIEN VOLUNTEER FIRE DEPARTMENT **DARIEN** ELKHORN POLICE DEPARTMENT **ELKHORN** JEFFERSON FIRE DEPARTMENT **JEFFERSON** GENOA CITY POLICE DEPARTMENT **GENOA CITY** WHEATLAND FIRE DEPARTMENT BURLINGTON VILLAGE OF BROWN DEER PUBLIC WORKS DEPARTMENT BROWN DEER WILLIAMS BAY POLICE DEPARTMENT **WILLIAMS BAY** TOWN OF LINN POLICE DEPARTMENT LAKE GENEVA BURNETT FIRE DEPARTMENT **BURNETT** WAUPUN VETERINARY SERVICE WALPUN CITY OF JUNEAU FIRE DEPARTMENT JUNEAU WOODLAND FIRE DEPARTMENT WOODLAND MAYVILLE ANIMAL CLINIC **MAYVILLE** WALWORTH COUNTY JAIL **ELKHORN** VILLAGE OF RAVENNA **RAVENNA** PARK TOWNSHIP THREE RIVERS SOLON TOWNSHIP-KENT COUNTY **SAND LAKE** VILLAGE OF AUGUSTA **AUGUSTA** MUSKEGON CENTRAL DISPATCH **MUSKEGON** SAUGATUCK POLICE DEPARTMENT SAUGATUCK BANGOR POLICE DEPARTMENT **BANGOR** CITY OF BANGOR **BANGOR** COLOMA PUBLIC WORKS DEPARTMENT **COLOMA** ROBINSON TOWNSHIP FIRE DEPARTMENT **GRAND HAVEN** ROCKFORD FIRE DEPARTMENT ROCKFORD CENTRAL DISPATCH DELTON **BUCHANAN TOWNSHIP BUCHANAN BRIDGMAN POLICE DEPARTMENT BRIDGMAN** CHARTER TOWNSHIP OF COMSTOCK COMSTOCK MICHIGAN DEPARTMENT OF NATURAL RESOURCES **LANSING ROYALTON TOWNSHIP** ST. JOSEPH GALIEN TOWNSHIP FIRE DEPARTMENT **GAL IEN OTSEGO CITY POLICE** OTSEGO RAVENNA AREA FIRE DEPARTMENT **RAVENNA BERTRAND TOWNSHIP NILES** CITY OF ALLEGAN ALLEGAN ALPINE CHARTER TOWNSHIP COMSTOCK PARK JAMESTOWN TOWNSHIP **JAMESTOWN KALAMAZOO PUBLIC UTILITIES KALAMAZOO** LAKE TOWNSHIP FIRE AND RESCUE **BRIDGEMAN CALEDONIA TOWNSHIP** CALEDONIA TOWNSHIP OF KALAMAZOO POLICE DEPARTMENT **KALAMAZOO** CITY OF WHITEHALL POLICE DEPARTMENT WHITEHALL **HASTINGS IRVING TOWNSHIP** PORTAGE POLICE DEPARTMENT **PORTAGE**

GRAND RAPIDS

KENT COUNTY SHERIFF'S DEPARTMENT

VILLAGE OF MARCELLUS MARCELLUS COOFERSVILLE POLICE DEPARTMENT COOFERSVILLE SALESBURG-CHARLESTON TOGNSHID FIRE DEPARTMENT GALESEURG

CITY OF NILES ENGINEERING/STREET DEPARTMENT NILES

KALAMAZOO COUNTY ROAD COMMISSION **KALAMAZOO** CASS COUNTY ROAD COMMISSION **CASSOPOLIS** VAN BUREN COUNTY ROAD COMMISSION **LAWRENCE**

BERRIEN COUNTY ROAD COMMISSION **BENTON HARBOR**

PORTER VOLUNTEER FIRE DEPARTMENT UNION ST. JOSEPH POLICE DEPARTMENT ST. JOSEPH VICKSBURG FIRE DEPARTMENT **VICKSBURG** VICKSBURG AMBULANCE SERVICE **VICKSBURG CITY CF KENTWOOD KENTWOOD** TOWNSHIP OF DALTON MUSKEGON LOWELL POLICE DEPARTMENT LOWELL HARTFORD POLICE DEPARTMENT **HARTFORD**

GRAND RAPIDS TOWNSHIP FIRE DEPARTMENT **GRAND RAPIDS**

STURGIS POLICE DEPARTMENT **STRUGIS** GEORGETOWN CHARTER TOWNSHIP VENISON TYRONE TOWNSHIP **KENT CITY CHESHIRE TOWNSHIP** ALLEGAN GRANDVILLE POLICE DEPARTMENT **GRANDVILLE DECATUR TOWNSHIP DECATUR KALAMAZOO** KALAMAZOO COUNTY SHERIFF'S DEPARTMENT HUDSONVILLE POLICE DEPARTMENT HUDSONVILLE

VILLAGE OF CASSOPOL IS **CASSOPOLIS** LINCOLN TOWNSHIP STEVENSVILLE **BALTIMORE TOWNSHIP HASTINGS** SPRING LAKE POLICE DEPARTMENT SPRING LAKE

PAW PAW POLICE DEPARTMENT VILLAGE OF PAW PAW

BERRIEN COUNTY SHERIFF DEPARTMENT ST. JOSEPH CITY OF PLAINWELL **PLAINWELL** CITY OF PLAINWELL, DEPARTMENT OF POLICE **PLAINWELL** VAN BUREN COUNTY SHERIFF'S DEPARTMENT **PAW PAW** WHITE RIVER TOWNSHIP **MONTEGUE** CITY OF PARCHMENT **PARCHMENT**

PAVILION TOWNSHIP FIRE DEPARTMENT SCOTTS NILES CITY POLICE DEPARTMENT **NILES**

MIDDLEVILLE POLICE DEPARTMENT **MIDDLEVILLE**

GOBLES POLICE DEPARTMENT GOBLES ALLEGAN COUNTY SHERIFF'S DEPARTMENT ALLEGAN HOLLAND POLICE DEPARTMENT **HOLLAND** SPARTA POLICE DEPARTMENT **SPARTA** DECATUR POLICE DEPARTMENT **DECATUR**

ROCKFORD CITY POLICE DEPARTMENT ROCKFORD CEDAR SPRINGS POLICE DEPARTMENT **CEDAR SPRINGS** CITY OF WALKER WHITE PIGEON VILLAGE POLICE KALAMAZOO DEPARTMENT OF PUBLIC SAFETY DOWAGIAC POLICE DEPARTMENT NEW BUFFALO POLICE DEPARTMENT MONTAGUE POLICE DEPARTMENT BERRIEN SPRINGS ORONOKO TOWNSHIP POLICE BARRY COUNTY SHERIFF POLICE HAMILTON FIRE DEPARTMENT **ALAMO TOWNSHIP** CASS COUNTY SHERIFF'S DEPARTMENT KENT COUNTY ROAD AND PARK COMMISSIONS ST. JOSEPH COUNTY COMMISSION MICHIGAN STATE POLICE LOWELL TOWNSHIP OTTAWA COUNTY SHERIFF'S DEPARTMENT ZEELAND POLICE DEPARTMENT VILLAGE OF BURR OAK GRAND BEACH POLICE DEPARTMENT WYOMING POLICE DEPARTMENT

MICHIGAN DEPARTMENT OF CORRECTIONS

NEW BUFFALO
MONTAGUE
BERRIEN SPRINGS
HASTINGS
HAMILTON
KALAMAZOO
CASSOPOLIS
GRAND RAPIDS
CENTREVILLE
EAST LANSING
LOWELL
HUDSONVILLE
ZEELAND
BURR OAK
GRAND BEACH

WYOMING

GRAND RAPIDS

WHITE PIGEON

KALAMAZOO

DOWAGIAC

STATEWIDE AGENCIES

STATE OF ILLINOIS
ILLINOIS STATE POLICE
INDIANA STATE POLICE
SPRINGFIELD
INDIANA STATE POLICE
ST. OF WIS. CEPT. OF HEALTH AND SOCIAL SER.
MADISON
MEDA CARE AMBULANCE
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
MICHIGAN STATE POLICE
MICHIGAN DEPARTMENT OF CORRECTIONS

SPRINGFIELD
INDIANAPOLIS
MADISON
MILWAUKEE
LANSING
EAST LANSING

FIGURE 1: COUNTY POPULATION ESTIMATES

WISCONSIN	CURRENT	1995	2005
Kenosha	212,100	117,862	113,243
Racine	171,600	173,361	173,262
Milwaukee	937,500	890,453	844,791
Ozaukee	68,400	73,997	78,795
Washington	88,400	98,102	106,378
Waukesha	285,400	306,400	315,476
Dodge	75,900	80,078	81,504
Dane	341,400	360,961	377,383
Walworth	71,200	74,330	78,255
Rock	138,300	141,898	142,330
Jefferson	67,200	69,203	71,062
ILLINOIS	,		,
Winnebago	250,800	250,345	246,472
Boone	29,100	30,017	30,690
McHenry	158,600	180,372	196,522
Lake	468,600	603,346	533,537
Cook	5,294,900	5,394,332	5,448,171
DuPage	716,200	828,757	884,683
Kane	299,000	344,672	379,274
De Kalb	73,600	73,111	75,073
Kendall	37,000	37,503	37,464
Will	334,100	367,757	402,451
Grundy	31,200	32,187	32,616
Kankakee	98,600	94,705	92,471
INDIANA	,		,
Lake	496,900	481,920	466,720
Porter	122,900	131,210	135,840
LaPorte	106,500	101,970	97,610
Newton	144,100	13,880	13,440
Jasper	26,500	27,420	27,800
Pulaski	13,400	14,410	14,980
Starke	21,200	21,320	21,190
Marshall	41,300	43,110	44,530
St. Joseph	241,500	240,930	243,760
Elkhart	145,300	154,450	160,460
MICHIGAN			
Ottawa	167,100	190,900	216,000
Muskegon	156,900	153,600	148,600
Kent	467,200	296,700	523,200
Allegan	85,200	95,000	106,900
Van Buren	66,400	77,200	85,000

TOTAL	12,860,700	13,425,069	13,619,733
St. Joseph	58,300	65,100	72,500
Barry	46,880	52,600	58,000
Cass	48,300	52,600	55,600
Kalamazoo	48,300	52,600	55,600
Berrien	162,700	168,200	166,600

CURRENT 800 MHz LICENSEES

GURNEE

GURNEE POLICE DEPARTMENT

LINCOLNWAY POLICE COMM. CENTER **NEW LENOX** FRANKFORT POLICE DEPT. **FRANKFORT** NEW LENOX POLICE DEPT. **NEW LENOX** ELGIN PUBLIC SAFETY COMMUNICATIONS **ELGIN** WHEELING POLICE DEPARTMENT WHEELING BURBANK POLICE DEPARTMENT **BURBANK** DUPAGE COUNTY SHERIFF'S DEPARTMENT WHEATON BOURBONNAIS POLICE DEPARTMENT **BOURBONNAIS DEERFIELD POLICE DEPARTMENT DEERFIED** WOODRIDGE POLICE DEPARTMENT WOODRIDGE BEDFORD PARK POLICE DEPARTMENT **BEDFORD PARK** BLOOMINGDALE POLICE DEPARTMENT **BLOOMINGDALE** ALSIP POLICE DEPARTMENT **ALSIP** ROLLING MEADOWS POLICE DEPARTMENT **ROLLING MEAWS DU-COMM CENTRAL DISPATCH** WHEATON VILLAGE OF SCHAUMBURG POLICE DEPARTMENT **SCHAUMBURG** NAPERVILLE POLICE DEPARTMENT NAPERVILLE NAPERVILLE FIRE DEPARTMENT **NAPERVILLE** CALUMET CITY POLICE DEPARTMENT **CALUMET CITY** ILLINOIS STATE TOLL HIGHWAY AUTHORITY **OAK BROOK BROADVIEW FIRE DEPARTMENT BROADVIEW** SOUTHWEST CENTRAL DISPATCH **PALOS HEIGHTS** CHICAGO POLICE DEPARTMENT CHICAGO

CHICAGO FIRE DEPARTMENT
PALATINE POLICE DEPARTMENT
STATE OF ILLINOIS
CITY OF CHICAGO DEPARTMENT OF AVIATION
CITY OF CHICAGO-STREETS & SANITATION
EAST CHICAGO POLICE DEPARTMENT
BROWNSVILLE VETERINARY CLINIC

WHAT AGE OF DADIENT ROLLGE DEPARTMENT

CHICAGO
BROWNSVILLE

BROWNSVILLE

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CHICAGO
BROWNSVILLE

CHICAGO

VILLAGE OF DARIEN POLICE DEPARTMENT
MEDA CARE AMBULANCE
DARIEN
MILWAUKEE

GREENFIELD POLICE DEPARTMENT
GRAFTON POLICE DEPARTMENT
VILLAGE OF EAST TROY POLICE DEPARTMENT
ELKHORN POLICE DEPARTMENT
ELKHORN

WILLIAMS BAY POLICE DEPARTMENT WILLIAMS BAY

WALWORTH COUNTY JAIL ELKHORN

KENT COUNTY ROAD AND PARK COMMISSIONS GRAND RAPIDS

PENDING 800 MHz APPLICATIONS

AGENCY CITY/TOWN

CARY POLICE DEPARTMENT CARY

BOLINGBROOK POLICE DEPARTMENT BOLINGBROOK

BOLINGBROOK FIRE DEPARTMENT BOLINGBROOK

ASHIPPUN FIRE DEPARTMENT ASHIPPUN

800 MHz SYSTEM PLAN FILED

AGENCY CITY/TOWN

CARY POLICE DEPARTMENT
NAPERVILLE POLICE DEPARTMENT
CITY OF MADISON COMMUNICATIONS
WEST ALLIS POLICE DEPARTMENT
WEST ALLIS FIRE DEPARTMENT
WEST ALLIS
GRAFTON POLICE DEPARTMENT
GRAFTON

CARY
NAPERVILLE
WARPENVILLE
WEST ALLIS
GRAFTON

PLANS INCOMPLETE COPY TO BE FORWARDED

AGENCY CITY/TOWN

WILL COUNTY SHERIFF'S DEPT. **JOLIET** BOLINGBROOK POLICE DEPARTMENT **BOLINGBROOK** ELK GROVE VILLAGE POLICE/FIRE **ELK GROVE** RICHTON PARK POLICE DEPARTMENT RICHTON PARK BOLINGBROOK FIRE DEPARTMENT **BOLINGBROOK** STATE OF ILLINOIS **SPRINGFIELD** ILLINOIS STATE POLICE **SPRINGFIELD** EAST CHICAGO POLICE DEPARTMENT **EAST CHICAGO** KENOSHA COUNTY SHERIFF'S DEPT. KENOSHA WAUKESHA COUNTY SHERIFF DEPARTMENT WAUKESHA WAUKESHA CDUNTY WAUKESHA CITY OF BROOKFIELD POLICE DEPT. **BROOKFIELD BUTLER** VILLAGE OF BUTLER POLICE DEPARTMENT VILLAGE OF EAST TROY POLICE DEPARTMENT **EAST TROY**

HAVE FUNDS NOW

AGENCY CITY/TOWN

GLENDALE HEIGHTS POLICE DEPT. GLENDALE HEIGHTS

CARY POLICE DEPARTMENT CARY

CITY OF CRYSTAL LAKE (POLICE DEPT.)

BOLINGBROOK POLICE DEPARTMENT

MONTGOMERY POLICE DEPARTMENT

BOLINGBROOK FIRE DEPARTMENT

BOLINGBROOK

VILLAGE OF SCHAUMBURG POLICE DEPARTMENT SCHAUMBURG

NAPERVILLE POLICE DEPARTMENT
NAPERVILLE
NAPERVILLE FIRE DEPARTMENT
BROADVIEW FIRE DEPQRTMENT
BEDFORD PARK POLICE DEPARTMENT
BEDFORD PARK
ILLINOIS STATE POLICE
INDIANA DEPT. OF HIGHWAYS-TOLL ROAD DIVISION GRANGER

ELKHART COUNTY PUBLIC SAFETY COMM. CENTER GOSHEN
EAST CHICAGO POLICE DEPARTMENT
EAST CHICAGO

MUNSTER POLICE DEPARTMENTMUNSTERDANE COUNTY REGIONAL AIRPORTMADISONMED-TECH AMBULANCEKENOSHABELL AMBULANCEMILWAUKEE

CITY OF RACINE-DEPT. OF PUBLIC WORKS RACINE

MILWAUKEE COUNTY TRANSIT SYSTEM
WEST ALLIS POLICE DEPARTMENT
WEST ALLIS
WEST ALLIS FIRE DEPARTMENT
WEST ALLIS
GRAFTON POLICE DEPARTMENT
VILLAGE OF EAST TROY POLICE DEPARTMENT
WALWORTH COUNTY JAIL

MILWAUKEE
WEST ALLIS
GRAFTON
EAST TROY
EAST TROY
ELKHORN

EERRIEN COUNTY ROAD COMMISSION BENTON HARBOR

HOLLAND POLICE DEPARTMENT
CASS COUNTY SHERIFF'S DEPARTMENT
OTTAWA CCUNTY SHERIFF'S DEPARTMENT
HUDSONVILLE

WILL HAVE FUNDS IN 12 MONTHS

AGENCY CITY/TOWN

RICHTON PARK POLICE DEPARTMENT RICHTON PARK

CARY FIRE PROTECTION DISTRICT CARY

NORTH RIVERSIDE FIRE DEPARTMENT NORTH RIVERSIDE

CHICAGO POLICE DEPARTMENT CHICAGO

INDIANA STATE POLICE INDIANAPOLIS

CITY OF MADISON COMMUNICATIONS
CITY OF RACINE-DEPT. OF PUBLIC WORKS
WAUKESHA COUNTY SHERIFF DEPARTMENT
WAUKESHA COUNTY
WAUKESHA
CITY OF BROOKFIELDPOLICE DEPT.
OCONOMOWOC POLICE DEPARTMENT
CITY OF OCONOMOWOC FIRE DEPARTMENT
OCONOMOWOC

WILL HAVE FUNDS IN 24 MONTHS

AGENCY CITY/TOWN

QUADCOM CARPENTERSVILLE WILL COUNTY SHERIFF'S DEPT. JOLIET WESTMONT POLICE DEPARTMENT **WESTMONT** BURR RIDGE POLICE DEPARTMENT **BURR RIDGE** ADDISON POLICE DEPARTMENT **ADDISON ELK GROVE** ELK GROVE VILLAGE POLICE/FIRE WEST DUNDEE FIRE DEPARTMENT **WEST DUNDEE** ELMWOOD PARK FIRE DEPARTMENT ELMWOOD PARK LAKE BLUFF FIRE DEPARTMENT LAKE BLUFF NORTHLAKE FIRE DEPARTMENT **NORTHLAKE** DEKALB FIRE DEPARTMENT **DEKALB** KANE COUNTY ESDA **GENEVA** CITY OF JOLIET FIRE DEPARTMENT **JOL IET** HAMMOND POLICE DEPARTMENT **HAMMOND** CITY OF STOUGHTON FIRE DEPARTMENT **STOUHTON** KENOSHA COUNTY SHERIFF'S DEPT. **KENOSHA** MED-TECH AMBULANCE **KENOSHA** CALEDONIA FIRE DEPARTMENT **CALEDONIA** VILLAGE OF BUTLER POLICE DEPARTMENT BUTLER **BEAVER DAM VETERINARY CLINIC BEAVER DAM** WATERTOWN FIRE DEPARTMENT WATERTOWN LAKE GENEVA POLICE DEPARTMENT LAKE GENEVA GALESBURG-CHARLESTON TOWNSHIP FD **GALESBURG** CASS COUNTY SHERIFF'S DEPARTMENT **CASSOPOLIS** KENT COUNTY ROAD AND PARK COMMISSSION **GRAND RAPIDS** OTTAWA COUNTY SHERIFF'S DEPARTMENT **HUDSONVILLE**

NEED 1 TO 4 ADDITIONAL 800 MHz FREQUENCIES NOW

AGENCY CITY/TOWN
QUADCOM CARPENTERSVILLE
RIVER FOREST POLICE DEPARTMENT RIVER FOREST

RIVER FOREST POLICE DEPARTMENT RIVER FOREST SOUTH HOLLAND POLICE DEPARTMENT SOUTH HOLLAND

WILL COUNTY SHERIFF'S DEPT. JOLIET

GLENDALE HEIGHTS POLICE DEPT. GLENDALE HEIGHTS

OAK PARK POLICE DEPT. OAK PARK

WESTMONT POLICE DEPARTMENT
VILLAGE OF K ILDEEN
BURR RIDGE POLICE DEPARTMENT
WHEELING POLICE DEPARTMENT
WHEELING

DUPAGE COUNTY SHERIFF'S DEPARTMENT WHEATON EVANSTON POLICE DEPARTMENT EVANSTON

LYONS POLICE DEPARTMENT LYONS

BOLINGRROOK POLICE DEPARTMENT BOLINGBROOK

ADDISON POLICE DEPARTMENT
THORNTON POLICE DEPARTMENT
ELK GROVE VILLAGE POLICE/FIRE
BERWYN POLICE DEPARTMENT
BERWYN
BERWYN

RICHTON PARK POLICE DEPARTMENT

BOLINGBROOK FIRE DEPARTMENT

WEST DUNDEE FIRE DEPARTMENT

CHERRY VALLEY POLICE DEPARTMENT

ELMWOOD PARK FIRE DEPARTMENT

ELMWOOD PARK

BERKELEY POLICE DEPARTMENT
OAK FOREST POLICE DEPARTMENT
OAK FOREST

CARY FIRE PROTECTION DISTRICT CARY

VILLAGE OF WESTMONT EMERGENCY SERVICES WESTMONT

NORTH RIVERSIDE FIRE DEPARTMENT NORTH RIVERSIDE

CALUMET CITY POLICE DEPARTMENT
ILLINOIS STATE TOLL HIGHWAY AUTHORITY
BROADVIEW FIRE DEPARTMENT
NORTHLAKE FIRE DEPARTMENT
WAUKEGAN FIRE DEPARTMENT
WAUKEGAN
VILLAGE OF BROOKFIELD EMERGENCY SERVICES BROOKFIELD

HAINESVILLE POLICE DEPARTMENT
DEKALB FIRE DEPARTMENT
DEKALB

VILLAGE OF TINLEY PARK
PALATINE POLICE DEPARTMENT
LAKE COUNTY ESDA
TINLEY PARK
PALATINE
GENEVA

BEDFORD PARK POLICE DEPARTMENT BEDFORD PARK

TRI-STATE FIRE PROTECTION DISTRICT
CITY OF JOLIET FIRE DEPARTMENT
ROSCOE POLICE DEPARTMENT
ROSCOE

LAPORTE COUNTY POLICE DEPARTMENT **LAPORTE** HAMMOND POLICE DEPARTMENT **HAMMOND** INDIANA DEPT. OF HIGHWAYS-TOLL ROAD DIVISION GRANGER EAST CHICAGO POLICE DEPARTMENT EAST CHICAGCO CITY OF STOUGHTON FIRE DEFARTMENT **STOUGHTON MED-TECH AMBULANCE KENOSHA** HARTLAND FIRE DEPARTMENT **HARTLAND** WAUKESHA COUNTY PROGRAM ON AGING WAUKESHA CITY OF BROOKFIELD POLICE DEPT. **BROOKFIELD** VILLAGE OF BUTLER POLICE DEPARTMENT BUTLER **TOWN OF VERNON BIG BEND** WATERTOWN FIRE DEPARTMENT WATERTOWN MILWAUKEE COUNTY SHERIFF'S DEPARTMENT MILWAUKEE WAUKESHA COUNTY MAINTENANCE DEPARTMENT WAUKESHA VILLAGE OF PADDOCK LAKE **SALEM** GENOA CITY FIRE DEPARTMENT **GENOA CITY** ELKHORN POLICE DEPARTMENT **ELKHORN** GENOA CITY POLICE DEPARTMENT **GENOA CITY** WILLIAMS BAY POLICE DEPARTMENT WILLIAMS BAY WALWORTH COUNTY JAIL **ELKHORN** VILLAGE OF MARCELLUS **MARCELLUS** PORTER VOLUNTEER FIRE DEPARTMENT **UNION**

BERRIEN SPRINGS ORONOKO TOWNSHIP POLICE BERRIEN SPRINGS

NEED 5 TO 10 ADDITIONAL 800 MHz FREQUENCIES NOW

AGENCY CITY/TOWN

SKOKIE POLICE & FIRE COMMUNICATIONS **SKOKIE** WINNETKA POLICE DEPARTMENT WINNETKA NAPERVILLE POLICE DEPARTMENT **NAPERVILLE** NAPERVILLE FIRE DEPARTMENT **NAPERVILLE** GLENCOE DEPARTMENT OF PUBLIC SAFETY **GLENCOE** MUNSTER POLICE DEPARTMENT **MUNSTER** KENOSHA COUNTY SHERIFF'S DEPT. **KENOSHA** WAUKESHA COUNTY SHERIFF DEPARTMENT **WAUKESHA** WAUKESHA COUNTY WAUKESHA MILWAUKEE COUNTY TRANSIT SYSTEM **MILWAUKEE** WEST ALLIS POLICE DEPARTMENT **WEST ALLIS** WEST ALLIS FIRE DEPARTMENT **WEST ALLIS** OCONOMOWOC POLICE DEPARTMENT OCONOMOWOC CITY OF OCONOMOWOC FIRE DEPARTMENT **OCONOMOWOC** CITY OF KENTWOOD **KENTWOOD** ALLEGAN COUNTY SHERIFF'S DEPARTMENT **ALLEGAN**

NEED MORE THAN 10 800 MHz FREQUENCIES NOW

CHICAGO POL ICE DEPARTMENT
STATE OF ILLINOIS
!LLINOIS STATE POLICE
INDIANA STATE POLICE
TESS CORNERS FIRE DEPT.
MICHIGAN STATE POLICE
EAST LANSING

PREFER ADDITIONAL 800 MHz OVER CURRENT SPECTRUM

AGENCY CITY/TOWN

GURNEE POLICE DEPARTMENT
WILL COUNTY SHERIFF'S DEPT.
WILL COUNTY ESDA
JOLIET
JOLIET

GLENDALE HEIGHTS POLICE DEPT. GLENDALE HEIGHTS

OAK PARK POLICE DEPT.
CARY POLICE DEPARTMENT
HUNTLEY POLICE DEPARTMENT
VILLAGE OF KILDEEN
ELGIN PUBLIC SAFETY COMMUNICATIONS
SKOKIE POLICE & FIRE COMMUNICATIONS
SKOKIE

MORTON GROVE POLICE MORTON GROVE WHEELING POLICE DEPARTMENT WHEELING

DUPAGE COUNTY SHERIFF'S DEPARTMENT

DUPAGE

DUPAGE

BOLINGBROOK POLICE DEPARTMENT
BLOOMINGDALE POLICE DEPARTMENT
ROLLING MEADOWS POLICE DEPARTMENT
BOLINGBROOK
BLOOMINGDALE
ROLLING MEADOWS

ADDISON POLICE DEPARTMENT ADDISON

BOLINGBROOK FIRE DEPARTMENT BOLINGBROOK

GURNEE FIRE DEPARTMENT
WINNETKA POLICE DEPARTMENT
WEST DUNDEE FIRE DEPARTMENT
WEST DUNDEE
NAPERVILLE POLICE DEPARTMENT
LAKE BLUFF FIRE DEPARTMENT
LAKE BLUFF

CARY FIRE PROTECTION DISTRICT CARY

CARPENTERSVILLE & COUNTRYSIDE FIRE PROT. CARPENTERSVILLE

ILLINOIS STATE TOLL HIGHWAY AUTHORITY
BENSENVILLE ESDA
BROADVIEW FIRE DEPARTMENT
CITY OF DARIEN
CHICAGO POLICE DEPARTMENT
CHICAGO FIRE DEPARTMENT
CHICAGO
CHICAGO
CHICAGO

BEDFORD PARK POLICE DEPARTMENT BEDFORD PARK

MORRIS POLICE DEPARTMENT MORRIS
TRI-STATE FIRE PROTECTION DISTRICT DARIEN
CITY OF JOLIET FIRE DEPARTMENT JOLIET

STATE OF ILLINOIS SPRINGFIELD ILLINOIS STATE POLICE SPRINGFIELD

LAPORTE COUNTY POLICE DEPARTMENT LAPORTE

INDIANA STATE POLICE INDIANAPOLIS INDIANA DEPT. OF HIGHWAYS-TOLL ROAD DIVISION GRANGER

EAST CHICAGO POLICE DEPARTMENT **EAST CHICAGO** GARY FIRE DEPARTMENT **GARY CITY OF GARY GARY MUNSTER** MUNSTER POLICE DEPARTMENT CITY OF STOUGHTON FIRE DEPARTMENT **STOUGHTON COUNTY OF DANE MADISON** CI TY OF MADISON COMMUNICAT IONS **MADISON** STOUGHTON POLICE DEPARTMENT **STOUGHTON BROWNSVILLE VETERINARY CLINIC BROWNSVILLE** HORICON EMERGENCY MEDICAL SERVICES HORICON FORT ATKINSON FIRE DEPARTMENT **FORT ATKINSON** KENOSHA COUNTY SHERIFF'S DEPT. **KENOSHA** TOWN OF SALEM **SALEM** MED-TECH AMBULANCE KENOSHA KENOSHA HOSPITAL AND MEDICAL CENTER **KENOSHA** FOX POINT DEPT. OF PUBLIC SAFETY **MILWAUKEE** SAUKVILLE FIRE DEPARTMENT **SAUKVILLE** CITY OF BROOKFIELD FIRE DEPT. **BROOKFIELD** WAUKESHA COUNTY PROGRAM ON AGING WAUKESHA TESS CORNERS FIRE DEPT. MUSKEGO WAUKESHA WASTEWATER TREATMENT PLANT WAUKESHA BIG BEND-VERNON VOL. FIRE DEPT. **BIG BEND** WAUKESHA POLICE DEPT. **WAUKESHA** WAUKESHA COUNTY WAUKESHA WAUKESHA COUNTY HIGHWAY DEPT. WAUKESHA VILLAGE OF BUTLER POLICE DEPARTMENT BUTLER WAUKESHA COUNTY PARK & PLANNING WAUKESHA WAUKESHA FIRE DEPT. **WAUKESHA** CITY OF LAKE MILLS POLICE DEPARTMENT LAKE MILLS FORT ATKINSON MEMORIAL HOSPITAL FORT ATKINSON MILWAUKEE COUNTY TRANSIT SYSTEM MILWAUKEE WEST ALLIS POLICE DEPARTMENT **WEST ALLIS** WEST MILWAUKEE FIRE DEPARTMENT **MILWAUKEE CITY OF WAUWATOSA** MEDA CARE AMBULANCE **MILWAUKEE** GREENFIELD POLICE DEPARTMENT **GREENFIELD** WEST ALLIS FIRE DEPARTMENT **WEST ALLIS GRAFTON POLICE DEPARTMENT GRAFTON** TOWN OF WATERFORD POLICE DEPARTMENT WATERFORD WAUKESHA COUNTY MAINTENANCE DEPARTMENT WAUKESHA WAUKESHA PARK AND RECREATION WAUKESHA CITY OF DELAFIELD DEPARTMENT OF POLICE **DELAFIELD** VILLAGE OF CHENEQUA POLICE DEPARTMENT HARTLAND HARTLAND POLICE DEPARTMENT **HARTLAND** VILLAGE OF EAST TROY POLICE DEPARTMENT **EAST TROY** GENOA CITY FIRE DEPARTMENT **GENOA CITY**

LAKE GENEVA POLICE DEPARTMENT JEFFERSON FIRE DEPARTMENT GENOA CITY POLICE DEPARTMENT WILLIAMS BAY POLICE DEPARTMENT WALWORTH COUNTY JAIL BEPRIEN COUNTY ROAD COMMISSION KALAMAZOO COUNTY SHERIFF'S DEPARTMENT KALAMAZOO WHITE PIGEON VILLAGE POLICE KENT COUNTY ROAD AND PARK COMMISSIONS GRAND RAPIDS MICHIGAN STATE POLICE

LAKE GENEVA **JEFFERSON GENOA CITY** WILLIAMS BAY **ELKHORN BENTON HARBOR** WHITE PIDGEON **EAST LANSING**

APPENDIX

H

APPLICATION EVALUATION CRITERIA CATEGORY WEIGHTS

1. SERVICE: 0 TO 100 POINTS

Eligible services have been grouped into the following three Priority Levels. Each Level has a predetermined maximum number of points associated with it. In the case of a "multiple-service" system being proposed, the application must state the number of mobiles assigned to each service. The percentages resulting from these totals will determine the total number of points awarded.

PRIORITY LEVEL I: Maximum of 100 points

Public Safety Radio Service Licensees providing protection of life and property.

PRIORITY LEVEL 11: Maximum of 65 points

Public Safety Radio Service Licensees providing protection of property only.

PRIORITY LEVEL 111: Maximum of 35 points

Special Emergency Radio Service Licensees.

2. SYSTEM TYPE: 0 TO 50 POINTS

From 0 to 50 points can be earned in this category, based on the degree of spectrum efficiency demonstrated for the system. The more spectrum efficient a proposed system is, the more points the application will earn. A higher standard will be used to evaluate applications from agencies located within a Primary Zone.

Information relating to the system's technology such as trunked or conventional operation, and voice or data transmission (or voice/data combination) must be provided. The narrative should also discuss how utilization of these features will result in an efficient use of the spectrum. Furthermore, details regarding any other enhancements to the system must be provided. The application must also state whether the system is being proposed as a single agency-single service, multiple agency-single service or multiple agency-multiple service operation.

3. <u>INTERSYSTEM INTEROPERABILITY</u>: 0 TO 100 POINTS

An application will be awarded from 0to 50 points in this category based on its description of how the 800MHz mobile radios will maintain, and/or increase, mutual aid capabilities. Since they are mandated by the National Plan, inclusion of the five Common Channels in mobile equipment is not rated. However, an applicant may earn up to 50 additional points (for the maximum of 100) in this category, on the initial and all subsequent applications, for providing fixed equipment necessary for the operation of Common Channels in a specific area(s) of the Region.

4. CHANNEL LOADING FACTORS: 10 TO 50 POINTS

Applications will receive between 10 and 50 points for proposing a number of mobile units that meet the Channel Loading requirements mandated by this Plan. Consideration will take into account the feasibility of operating the number of mobiles per channel being proposed.

5. COVERAGE AREA: 10 TO 50 POINTS

Scoring in this category will be based on two factors: (1) Compliance with the parameters described on pages 14, 15, and 18 of this Plan, as evidenced by the submission of a map of the service area depicting jurisdictional boundaries, proposed transmitter sites, and minimum coverage areas of those transmitter site; and (2) Channel reuse potential.

6. VACATED FREQUENCIES RETURNED: 0 TO 100 POINTS

The application will earn from 0 to 100 points in this category depending on the number of vacated frequencies being proposed for return, in relation to the total number of frequencies used by the agency (including those being applied for) ;and, the availability of the returned frequencies for use by other agencies in the region.

7. IMPLEMENTATION SCHEDULE: 0 TO 50 POINTS

The degree of budgetary commitment to the system being proposed, and the specificity of implementation dates will be the bases for scoring an application in this category. The more explicit an application is with respect to these topics, the more points it will earn in this category.

APPENDIX

J

INITAL SPECTRUM ALLOCATION

FREQUEUCY SORTING METHODOLOGY

INTRODUCTION

The initial spectrum allocation for the Region was determined by a computerized frequency sorting process performed by C.E.T., Inc. of New Smyrna Beach, Florida. The purpose of the computer program which assigns frequencies to specific eligibles and to pools for future assignment is two-fold:

- A) The assignments must be made in a manner which results in a high degree of spectrum efficiency, and
- B) The assignments must be made in a manner which results in a low probability of cochannel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, a method of defining geography must be part of the input. A list of the number of channels to be assigned in each geographic area is also required, along with the name of the eligible or pool.

Acceptable interference probabilities are determined for the Region. Frequency assignments are then made using a computer program which satisfies the goals of spectrum efficiency and interference protection. The following describes the factors and process used by the computer program.

GEOGRAPHIC AREA

For the purpose of this frequency sort, a geographic area is defined as one or more circles of equal radius. To the degree practical, this circle(s) should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three (3) miles.

Thus the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the coordinates and radius of the circles which define each area, and tabulate the data.

DEFINE THE ENVIRONMENT

The environment of each system is defined according to the following criteria:

- (1) URBAN ---a built up city crowded with large buildings, or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.
- (2) SUBURBAN ---a city or highway scattered with trees, houses and buildings. This would include the non-downtown area of a major city.
- (3) OPEN ---an area where there are no obstacles such as tall trees or buildings in the propagation path, or a plot of land which is cleared of anything for 300-400 meters ahead. This would include farm land, open fields, etc.
- (4) QUASI-OPEN ---an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.

BLOCKED CHANNELS

In the Region there are five mutual aid channels which must be blocked out to prevent the computer from making assignments on these channels. (Since the mutual aid channels are spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels).

These region-wide blocked channels are identified by FCC channel number, tabulated and they become input to the computer program.

TRANSMITTER COMBINING

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is, if the eligible has more frequencies than the maximum size of the combining block, then a new compatible block is created.

Each of these parameters is adjustable in the program on a global basis. The parameters chosen are 0.25MHz minimum spacing and five channel blocks.

SPECIAL CONSIDERATIONS

There are existing licensees in the 806-821/852-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz bands. Existing radio units are unable to operate on 12.5 KHz separated carrier frequencies. The result is that these radios can only operate on "even" FCC numbered channels in the 821-824/866-869 KHz band. The computer program is able to take this into account when making assignments.

PROTECTION RATIOS

There are two interference protection ratios built into the computer program. One is for the co-channel case, and the other is for the adjacent channel case. The ratios provide 35dB Desired/undesired signal ratio for co-channel assignments, and 15dB Desired/Undesired ratios provide an acceptable probability of interference for Public Safety Services.

WHAT PROGRAM DOES

- 1. Input data for the Region
 - ..Name (entity-county)
 - .. Coordinates
 - ..Range
 - .. Environment
 - ..Blocked/protected channels
 - ..Even/Odd channel requirements
- 2. Select parameters
 - .. Combiner spacing
 - .. Maximum spectrum to be used
 - .. Number of iterations allowed
 - .. Protection ratios for co-channel and adjacent channels
- 3. Computer determines an ERP/Antenna Height combination which places the 4OdBu point at the range specified, in the environment specified, for each system.

- 4. Computer calculates distances between all possible combinations of single site, and multiple site systems.
- 5. The computer uses its input tables to determine compatible assignments such that the signal strength at a co-channel assignees' boundary is <+5dBu, and the signal strength at an adjacent channel assignees1 boundary is <+25dBu.
- 6. If the maximum spectrum allowed is filled before all systems are assigned channels, then the list is re-ordered according to the difficulty of assignments, and another iteration is made.
- 7. If the maximum number of iterations is reached before all assignments are satisfied, the maximum spectrum allowed is increased and the process begins again. The maximum spectrum allowed is initially set at a value which will fail to find a solution. By incrementing its value on successive attempts, the first successful run should be the most spectrum efficient solution this program will ever find, for this case.

APPENDIX

K

SOUTHERN LAKE MICHIGAN PLANNING REGION

SPECTRUM ALLOCATION

2009 Rebanding Sort

NEW CH	NEW FREQUE	ENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
1	806.0125	851.0125	I-CALL	IL
1	806.0125	851.0125	I-CALL	IL
1	806.0125	851.0125	I-CALL	IL
1	806.0125	851.0125	I-CALL	IN
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	MI
1	806.0125	851.0125	I-CALL	WI
2	806.0375	851.0375	KANE	IL
2	806.0375	851.0375	NEWTON	IN
2	806.0375	851.0375	BERRIEN	MI
2	806.0375	851.0375	OZAUKEE	WI
3	806.0500	851.0500	COOK	IL
3	806.0500	851.0500	OTTAWA	MI
3	806.0500	851.0500	ROCK	WI
4	806.0625	851.0625	KANE	IL
4	806.0625	851.0625	PULASKI	IN
4	806.0625	851.0625	VAN BUREN	MI
5	806.0750	851.0750	LAKE	IN
5	806.0750	851.0750	OTTAWA	MI
5	806.0750	851.0750	JEFFERSON	WI
6	806.0875	851.0875	DUPAGE	IL
6	806.0875	851.0875	ELKHART	IN
6	806.0875	851.0875	MILWAUKEE	WI
7	806.1000	851.1000	BOONE	IL
7	806.1000	851.1000	STARKE	IN
7	806.1000	851.1000	MUSKEGON	MI
8	806.1125	851.1125	WILL	IL
8	806.1125	851.1125	KALAMAZOO	MI
8	806.1125	851.1125	DANE	WI
9	806.1250	851.1250	MARSHALL	IN

NEW CH	NEW FREQU	IENCIES	ALLOCATION	STATE
Сп #	MOBILE	RASE	(COUNTY)	
"	806.1250			MI
9	806.1250			WI
10	806.1375			IL
10	806.1375			IN
10		851.1375		MI
10	806.1375			WI
11	806.1500			IN
11	806.1500			MI
11	806.1500		MILWAUKEE	WI
12	806.1625			IL
13	806.1750	851.1750	BARRY	MI
13	806.1750	851.1750	MILWAUKEE	WI
14	806.1875	851.1875	C00K	IL
14	806.1875	851.1875	ST. JOSEPH	IN
14	806.1875	851.1875	DODGE	WI
15	806.2000	851.2000	DEKALB	IL
15	806.2000	851.2000	PORTER	IN
15	806.2000	851.2000	KENT	MI
16	806.2125	851.2125	C00K	IL
16	806.2125	851.2125	WAUKESHA	WI
17	806.2250	851.2250	MCHENRY	IL
17	806.2250	851.2250	ST. JOSEPH	IN
17	806.2250	851.2250	KENT	MI
18	806.2375	851.2375	DUPAGE	IL
18	806.2375	851.2375	MILWAUKEE	WI
19	806.2500	851.2500	LAKE	IL
19	806.2500	851.2500	CASS	MI
20	806.2625	851.2625	WINNEBAGO	IL
20	806.2625	851.2625	KENT	MI
20	806.2625	851.2625	WASHINGTON	WI
21	806.2750	851.2750	WILL	IL
21	806.2750	851.2750	ST. JOSEPH	IN
21	806.2750	851.2750	DANE	WI
22	806.2875	851.2875	LAPORTE	IN
22	806.2875	851.2875		WI
23	806.3000	851.3000	LAKE	IL
23	806.3000	851.3000	NEWTON	IN
23	806.3000	851.3000		MI
24	806.3125	851.3125	C00K	IL
24	806.3125	851.3125		MI
24	806.3125	851.3125	ROCK	WI

# MOBILE BASE (COUNTY) 25 806.3250 851.3250 KANE IL 25 806.3250 851.3250 PULASKI IN 26 806.3375 851.3250 OTTAWA MI 26 806.3375 851.3375 COOK IL 26 806.3375 851.3375 ELKHART IN 26 806.3375 851.3375 ELKHART IN 27 806.3500 851.3500 MCHENRY IL 27 806.3500 851.3500 MCHENRY IL 27 806.3500 851.3500 MUSKEGON MI 27 806.3500 851.3500 MUSKEGON MI 27 806.3500 851.3500 MUSKEGON MI 28 806.3625 851.3625 STATE GOVT IL 28 806.3625 851.3625 STATE GOVT IN 28 806.3625 851.3625 STATE GOVT WI 29 806.3750 851.3750 STATE GOVT WI 29 806.3750 851.3750 STATE GOVT IN 29 806.3750 851.3750 STATE GOVT IL 30 806.3875 851.3750 STATE GOVT WI 31 806.4000 851.4000 STATE GOVT IL 32 806.4125 851.4000 STATE GOVT MI 33 806.4250 851.4000 STATE GOVT MI 34 806.4550 851.4125 STATE GOVT MI 35 806.4125 851.4125 STATE GOVT MI 36 806.4125 851.4125 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT MI 38 806.4125 851.4125 STATE GOVT MI 39 806.3875 851.3875 STATE GOVT MI 30 806.3875 S51.3875 STATE GOVT MI 31 806.4000 851.4000 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT MI 34 806.4375 851.4125 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 36 806.4500 851.4500 STATE GOVT MI 37 806.4750 851.4375 STATE GOVT MI 38 806.4500 851.4500 STATE GOVT MI 39 806.3875 851.4375 STATE GOVT MI 30 806.3875 851.4375 STATE GOVT MI 31 806.4500 851.4500 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4500 851.4500 STATE GOVT MI 34 806.3500 STATE GOVT MI 35 806.4500 S51.4500 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4505 STATE GOVT MI 38 806.4500 S51.4500 STATE GOVT MI 38 806.4500 S51.4500 STATE GOVT MI 38 806.4500 S51.4500 STATE GOVT MI 39 806.4500 S51.4500 STATE GOVT MI 30 806.4500 S51.4500 STATE GOVT MI 31 806.4505 S51.4505 STATE GOVT MI 31 806.4505 S51.	NEW CH	NEW FREQU	JENCIES	ALLOCATION	STATE
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30 806.3875 851.3875 STATE GOVT IL 30 806.3875 851.3875 STATE GOVT MI 31 806.4000 851.4000 STATE GOVT IN 31 806.4000 851.4000 STATE GOVT WI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4250 851.4250 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT <td>29</td> <td>806.3750</td> <td>851.3750</td> <td>STATE GOVT</td> <td>WI</td>	29	806.3750	851.3750	STATE GOVT	WI
30 806.3875 851.3875 STATE GOVT MI 31 806.4000 851.4000 STATE GOVT WI 32 806.4125 851.4125 STATE GOVT IL 32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT MI 35 806.4375 851.4375 STATE GOVT MI 36 806.4500 851.4500 STATE GOVT MI 37 806.4625 851.4500 STATE GOVT MI 38 806.4500 851.4500 STATE GOVT MI 39 806.4500 851.4500 STATE GOVT MI 30 806.4500 851.4500 STATE GOVT MI 31 806.4500 851.4500 STATE GOVT MI 32 806.4500 851.4500 STATE GOVT MI 33 806.4500 851.4500 STATE GOVT MI 34 806.4500 851.4500 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4625 851.4625 STATE GOVT MI 38 806.4625 851.4625 STATE GOVT MI 39 806.4625 851.4625 STATE GOVT MI 30 806.4625 851.4625 STATE GOVT MI 31 806.4750 851.4750 STATE GOVT MI	30	806.3875	851.3875	STATE GOVT	IL
31 806.4000 851.4000 STATE GOVT IN 31 806.4000 851.4000 STATE GOVT WI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4250 851.4250 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT <td>30</td> <td>806.3875</td> <td>851.3875</td> <td>STATE GOVT</td> <td>IL</td>	30	806.3875	851.3875	STATE GOVT	IL
31 806.4000 851.4000 STATE GOVT WI 32 806.4125 851.4125 STATE GOVT IL 32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT IN 33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT IL 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 36 806.4500 851.4500 STATE GOVT MI 37 806.4500 851.4500 STATE GOVT MI 38 806.4500 851.4500 STATE GOVT MI 39 806.4500 851.4500 STATE GOVT MI 30 806.4500 851.4500 STATE GOVT MI 31 806.4500 851.4500 STATE GOVT MI 32 806.4500 851.4500 STATE GOVT MI 33 806.4500 851.4500 STATE GOVT MI 34 806.4500 851.4500 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT MI	30	806.3875	851.3875	STATE GOVT	MI
32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT <td>31</td> <td>806.4000</td> <td>851.4000</td> <td>STATE GOVT</td> <td>IN</td>	31	806.4000	851.4000	STATE GOVT	IN
32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT <td>31</td> <td>806.4000</td> <td>851.4000</td> <td>STATE GOVT</td> <td>WI</td>	31	806.4000	851.4000	STATE GOVT	WI
32 806.4125 851.4125 STATE GOVT MI 32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	32	806.4125	851.4125	STATE GOVT	IL
32 806.4125 851.4125 STATE GOVT MI 33 806.4250 851.4250 STATE GOVT IN 33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT WI 36 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	32	806.4125	851.4125	STATE GOVT	MI
33 806.4250 851.4250 STATE GOVT IN 33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT IL 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT MI 38 806.4750 851.4750 STATE GOVT MI	32	806.4125	851.4125	STATE GOVT	MI
33 806.4250 851.4250 STATE GOVT WI 34 806.4375 851.4375 STATE GOVT IL 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT MI 38 806.4750 851.4750 STATE GOVT MI	32	806.4125	851.4125	STATE GOVT	MI
34 806.4375 851.4375 STATE GOVT IL 34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 36 806.4500 851.4500 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	33	806.4250	851.4250	STATE GOVT	IN
34 806.4375 851.4375 STATE GOVT MI 34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT WI 36 806.4500 851.4500 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT WI	33	806.4250	851.4250	STATE GOVT	WI
34 806.4375 851.4375 STATE GOVT MI 35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT WI	34	806.4375	851.4375	STATE GOVT	IL
35 806.4500 851.4500 STATE GOVT IN 35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	34	806.4375	851.4375	STATE GOVT	MI
35 806.4500 851.4500 STATE GOVT WI 36 806.4625 851.4625 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	34	806.4375	851.4375	STATE GOVT	MI
36 806.4625 851.4625 STATE GOVT IL 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT WI 37 806.4750 851.4750 STATE GOVT WI	35	806.4500	851.4500	STATE GOVT	IN
36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	35	806.4500	851.4500	STATE GOVT	WI
36 806.4625 851.4625 STATE GOVT MI 36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	36	806.4625	851.4625	STATE GOVT	IL
36 806.4625 851.4625 STATE GOVT MI 37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	36	806.4625	851.4625	STATE GOVT	MI
37 806.4750 851.4750 STATE GOVT IN 37 806.4750 851.4750 STATE GOVT WI	36	806.4625	851.4625	STATE GOVT	MI
37 806.4750 851.4750 STATE GOVT WI	36	806.4625	851.4625	STATE GOVT	MI
	37	806.4750	851.4750	STATE GOVT	IN
38 806.4875 851.4875 STATE GOVT IL	37	806.4750	851.4750	STATE GOVT	WI
	38	806.4875	851.4875	STATE GOVT	IL

NEW CH	NEW FREQU	ENCIES	ALLOCATION	STATE
СП #	MOBILE	BASE	(COUNTY)	
# 38	806.4875			MI
38	806.4875			MI
39	806.5125			IL
39 39				IL
	806.5125			IL
39	806.5125			
39	806.5125			IN
39	806.5125			MI
39	806.5125			WI
40	806.5375			IL
40	806.5375			IN
40	806.5375			MI
40	806.5375			WI
41	806.5500			IL
41	806.5500			IN
41	806.5500	851.5500		MI
41	806.5500	851.5500		MI
41	806.5500			WI
42	806.5625			IL
42	806.5625	851.5625	ST. JOSEPH	IN
42	806.5625	851.5625	MILWAUKEE	WI
43	806.5750	851.5750	BOONE	IL
43	806.5750	851.5750	KANKAKEE	ΙL
43	806.5750	851.5750	OTTAWA	MI
44	806.5875	851.5875	CHICAGO	IL
44	806.5875	851.5875	KALAMAZ00	MI
44	806.5875	851.5875	KALAMAZOO	MI
44	806.5875	851.5875	MILWAUKEE	WI
45	806.6000	851.6000	KENDALL	IL
45	806.6000	851.6000	PULASKI	IN
45	806.6000	851.6000	KENT	MI
45	806.6000	851.6000	DANE	WI
46	806.6125	851.6125	LAKE	ΙL
46	806.6125	851.6125	ST. JOSEPH	IN
47	806.6250	851.6250	DUPAGE	ΙL
47	806.6250	851.6250	JASPER	IN
47	806.6250	851.6250	BARRY	MI
47	806.6250	851.6250	JEFFERSON	WI
48	806.6375	851.6375		ΙL
48	806.6375	851.6375	CASS	MI
49	806.6500	851.6500	COOK	IL
49	806.6500	851.6500		IL
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NEW CH	NEW FREQU	JENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
 49	806.6500			MI
49	806.6500			WI
50	806.6625			IL
50	806.6625			IN
51	806.6750			IL
51	806.6750			ΙL
51	806.6750			MI
51	806.6750		WASHINGTON	WI
52	806.6875			IL
52	806.6875	851.6875	LAPORTE	IN
53	806.7000	851.7000	ALLEGAN	ΜI
54	806.7125	851.7125	TOLLWAY	ΙL
55	806.7250	851.7250	PRIMARY ZONE POOL	
56	806.7375	851.7375	MCHENRY	ΙL
56	806.7375	851.7375	LAKE	IN
57	806.7500	851.7500	BERRIEN	MI
57	806.7500	851.7500	BERRIEN	MI
57	806.7500	851.7500	WAUKESHA	WI
58	806.7625	851.7625	WILL	ΙL
59	806.7750	851.7750	WALWORTH	WI
60	806.7875	851.7875	C00K	ΙL
60	806.7875	851.7875	MARSHALL	IN
61	806.8000	851.8000	DEKALB	ΙL
61	806.8000	851.8000	LAKE	IN
61	806.8000	851.8000	KALAMAZOO	MI
62	806.8125	851.8125	C00K	ΙL
62	806.8125	851.8125	BERRIEN	ΜI
62	806.8125	851.8125	DANE	WI
63	806.8250	851.8250	GRUNDY	ΙL
63	806.8250	851.8250	KENOSHA	WI
64	806.8375	851.8375	DUPAGE	ΙL
64	806.8375	851.8375	PORTER	IN
64	806.8375	851.8375	DANE	WI
65	806.8500	851.8500	KANKAKEE	ΙL
65	806.8500	851.8500	KENT	ΜI
65	806.8500	851.8500	RACINE	WI
66	806.8625	851.8625	STATE GOVT	ΙL
66	806.8625	851.8625	STATE GOVT	IN
66	806.8625	851.8625	STATE GOVT	ΜI
66	806.8625	851.8625	STATE GOVT	ΜI
66	806.8625	851.8625	STATE GOVT	ΜI

NEW	NEW FREQUE	ENCIES	ALLOCATION	STATE
CH				
#	MOBILE	BASE	(COUNTY)	
66	806.8625			WI
67	806.8750	851.8750	STATE GOVT	IN
67	806.8750	851.8750	STATE GOVT	WI
68	806.8875	851.8875	STATE GOVT	IL
68	806.8875		STATE GOVT	MI
69	806.9000	851.9000	STATE GOVT	IN
69	806.9000		STATE GOVT	WI
70	806.9125	851.9125	STATE GOVT	IL
70	806.9125	851.9125	STATE GOVT	IL
70	806.9125	851.9125	STATE GOVT	MI
70	806.9125	851.9125	STATE GOVT	MI
71	806.9250	851.9250	STATE GOVT	IN
71	806.9250	851.9250	STATE GOVT	WI
72	806.9375	851.9375	STATE GOVT	IL
72	806.9375	851.9375	STATE GOVT	MI
72	806.9375	851.9375	STATE GOVT	MI
73	806.9500	851.9500	STATE GOVT	IN
73	806.9500	851.9500	STATE GOVT	WI
74	806.9625	851.9625	STATE GOVT	IL
74	806.9625	851.9625	STATE GOVT	MI
75	806.9750	851.9750	STATE GOVT	IN
75	806.9750	851.9750	STATE GOVT	WI
76	806.9875	851.9875	STATE GOVT	IL
76	806.9875	851.9875	STATE GOVT	IL
76	806.9875	851.9875	STATE GOVT	MI
76	806.9875	851.9875	STATE GOVT	MI
77	807.0125	852.0125	ITAC 2	IL
77	807.0125		ITAC 2	IL
77	807.0125	852.0125	ITAC 2	IN
77	807.0125	852.0125	ITAC 2	MI
77	807.0125	852.0125	ITAC 2	MI
77	807.0125	852.0125	ITAC 2	MI
77	807.0125	852.0125	ITAC 2	WI
78	807.0375	852.0375	WINNEBAGO	IL
78	807.0375	852.0375	DUPAGE	IL
78	807.0375	852.0375	ST. JOSEPH	IN
78	807.0375	852.0375	MILWAUKEE	WI
79	807.0500	852.0500	LAKE	IL
79	807.0500	852.0500	BARRY	MI
80	807.0625	852.0625	MILWAUKEE	WI
81	807.0750	852.0750	TOLLWAY	IL

NEW CH	NEW FREQU	IENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
" 81	807.0750	852.0750	KENT	MI
82	807.0875			WI
83	807.1000	852.1000		IL
83	807.1000	852.1000	ALLEGAN	MI
83	807.1000	852.1000	DANE	WI
84	807.1125	852.1125		IL
84	807.1125		WAUKESHA	WI
85	807.1250	852.1250	LAKE	ΙL
85	807.1250	852.1250	LAKE	IN
85	807.1250	852.1250	BERRIEN	MI
86	807.1375	852.1375	DEKALB	ΙL
87	807.1500	852.1500	WILL	ΙL
88	807.1625	852.1625	WALWORTH	WI
89	807.1750	852.1750	C00K	IL
90	807.1875	852.1875	GRUNDY	IL
90	807.1875	852.1875	KENOSHA	WI
91	807.2000	852.2000	DUPAGE	IL
91	807.2000	852.2000	DANE	WI
92	807.2125	852.2125	PORTER	IN
92	807.2125	852.2125	RACINE	WI
93	807.2250	852.2250	C00K	IL
93	807.2250	852.2250	JEFFERSON	WI
94	807.2375	852.2375	JASPER	IN
94	807.2375	852.2375	RACINE	WI
95	807.2500	852.2500	KANE	IL
96	807.2625	852.2625	WAUKESHA	WI
97	807.2750	852.2750	KANE	IL
98	807.2875	852.2875	ROCK	WI
99	807.3000	852.3000	LAKE	IL
100	807.3125	852.3125	PRIMARY ZONE POOL	
101	807.3250	852.3250	MCHENRY	IL
102	807.3375	852.3375	PRIMARY ZONE POOL	
103	807.3500	852.3500	C00K	IL
103	807.3500	852.3500	ALLEGAN	MI
104	807.3625	852.3625	STATE GOVT	IL
104	807.3625	852.3625	STATE GOVT	IL
104	807.3625	852.3625	STATE GOVT	IN
104	807.3625	852.3625	STATE GOVT	IN
104	807.3625	852.3625	STATE GOVT	MI
104	807.3625	852.3625	STATE GOVT	MI
104	807.3625	852.3625	STATE GOVT	MI

CH # MOBILE BASE (COUNTY) 104 807.3625 852.3625 STATE GOVT IN 105 807.3750 852.3750 STATE GOVT IN 106 807.3875 852.3875 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT IL 107 807.4000 852.4000 STATE GOVT IN 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT IL 109 807.4250 852.4250 STATE GOVT IN 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 111 807.4500 852.4500 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT IN 113 807.4500 852.4500 STATE GOVT IN 114 807.4625 852.4625 STATE GOVT IN 115 807.4625 852.4625 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT IN 112 807.4625 852.4625 STATE GOVT IL 113 807.4750 852.4500 STATE GOVT IL 114 807.4875 852.4875 STATE GOVT IL 115 807.4625 852.4625 STATE GOVT IL 116 807.4625 852.4625 STATE GOVT IL 117 807.4625 852.4625 STATE GOVT II 118 807.4875 852.4875 STATE GOVT II 119 807.4875 852.4875 STATE GOVT II 110 807.4875 852.4875 STATE GOVT II 111 807.4500 S52.4500 STATE GOVT II 112 807.4625 852.4625 STATE GOVT II 113 807.4750 S52.4750 STATE GOVT II 114 807.4875 852.4875 STATE GOVT II 115 807.4625 852.4625 STATE GOVT II 114 807.4875 852.4875 STATE GOVT II 115 807.4625 852.4625 STATE GOVT II 116 807.4875 852.4875 STATE GOVT II 117 807.4805 852.4750 STATE GOVT II 118 807.4875 852.4875 STATE GOVT II 119 807.4875 852.4875 STATE GOVT II 114 807.4875 852.4875 STATE GOVT II 115 807.4875 852.4875 STATE GOVT II 116 807.4875 852.4875 STATE GOVT II 117
104 807.3625 852.3625 STATE GOVT WI 105 807.3750 852.3750 STATE GOVT IN 106 807.3750 852.3750 STATE GOVT WI 106 807.3875 852.3875 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT MI 107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT MI 108 807.4250 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 <t< td=""></t<>
105 807.3750 852.3750 STATE GOVT IN 105 807.3750 852.3750 STATE GOVT WI 106 807.3875 852.3875 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT MI 107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4255 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4500 <t< td=""></t<>
105 807.3750 852.3750 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT MI 107 807.4000 852.4000 STATE GOVT IN 108 807.4025 852.4000 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4250 852.4250 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 <t< td=""></t<>
106 807.3875 852.3875 STATE GOVT IL 106 807.3875 852.3875 STATE GOVT MI 107 807.4000 852.4000 STATE GOVT IN 107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4500 852.4500 <t< td=""></t<>
106 807.3875 852.3875 STATE GOVT MI 107 807.4000 852.4000 STATE GOVT IN 107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 112 807.4625 852.4625 <t< td=""></t<>
107 807.4000 852.4000 STATE GOVT IN 107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4250 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 <t< td=""></t<>
107 807.4000 852.4000 STATE GOVT WI 108 807.4125 852.4125 STATE GOVT IL 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4250 852.4250 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 111 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 <t< td=""></t<>
108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 <t< td=""></t<>
108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4250 852.4250 STATE GOVT IL 110 807.4375 852.4250 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 <t< td=""></t<>
108 807.4125 852.4125 STATE GOVT MI 108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT WI 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 114 807.4875 852.4750 <t< td=""></t<>
108 807.4125 852.4125 STATE GOVT MI 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT WI 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4750 STATE GOVT WI 114 807.4750 852.4750 <t< td=""></t<>
109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4375 852.4250 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 114 807.4875 852.4750 STATE GOVT II 114 807.4750 852.4750 STATE GOVT II
109 807.4250 852.4250 STATE GOVT IN 109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4375 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
109 807.4250 852.4250 STATE GOVT WI 109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4625 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
109 807.4250 852.4250 STATE GOVT WI 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4625 852.4625 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4625 852.4625 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
110 807.4375 852.4375 STATE GOVT IL 110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
110 807.4375 852.4375 STATE GOVT MI 110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
110 807.4375 852.4375 STATE GOVT MI 111 807.4500 852.4500 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
111 807.4500 852.4500 STATE GOVT IN 111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
111 807.4500 852.4500 STATE GOVT WI 112 807.4625 852.4625 STATE GOVT IL 112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
112 807.4625 852.4625 STATE GOVT MI 112 807.4625 852.4625 STATE GOVT MI 113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
113 807.4750 852.4750 STATE GOVT IN 113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
113 807.4750 852.4750 STATE GOVT WI 114 807.4875 852.4875 STATE GOVT IL
114 807.4875 852.4875 STATE GOVT IL
114 807.4875 852.4875 STATE GOVT IL
114 807.4875 852.4875 STATE GOVT MI
114 807.4875 852.4875 STATE GOVT MI
115 807.5125 852.5125 ITAC 3 IL
115 807.5125 852.5125 ITAC 3 IL
115 807.5125 852.5125 ITAC 3 IN
115 807.5125 852.5125 ITAC 3 MI
115 807.5125 852.5125 ITAC 3 WI
116 807.5375 852.5375 COOK IL
116 807.5375 852.5375 WAUKESHA WI
117 807.5500 852.5500 MCHENRY IL
118 807.5625 852.5625 PORTER IN
119 807.5750 852.5750 DUPAGE IL
120 807.5875 852.5875 LAKE IN
120 807.5875 852.5875 WALWORTH WI

NEW CH	NEW FREQU	JENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
121	807.6000	852.6000	DEKALB	ΙL
122	807.6125	852.6125	KANKAKEE	ΙL
123	807.6250	852.6250	KANE	ΙL
124	807.6375	852.6375	C00K	ΙL
125	807.6500	852.6500	C00K	ΙL
126	807.6625	852.6625	GRUNDY	ΙL
127	807.6750	852.6750	C00K	ΙL
128	807.6875	852.6875	ROCK	WI
129	807.7000	852.7000	WILL	ΙL
130	807.7125	852.7125	PRIMARY ZONE POOL	
131	807.7250	852.7250	MCHENRY	ΙL
131	807.7250	852.7250	JASPER	IN
132	807.7375	852.7375	C00K	IL
132	807.7375	852.7375	DANE	WI
133	807.7500	852.7500	KENDALL	ΙL
133	807.7500	852.7500	RACINE	WI
134	807.7625	852.7625	C00K	ΙL
134	807.7625	852.7625	NEWTON	IN
134	807.7625	852.7625	DODGE	WI
135	807.7750	852.7750	KENOSHA	WI
136	807.7875	852.7875	WILL	IL
136	807.7875	852.7875	BERRIEN	ΜI
136	807.7875	852.7875	DANE	WI
137	807.8000	852.8000	WAUKESHA	WI
138	807.8125	852.8125	LAKE	IL
138	807.8125	852.8125	PORTER	IN
138	807.8125	852.8125	ALLEGAN	ΜI
139	807.8250	852.8250	DUPAGE	ΙL
139	807.8250	852.8250	ST. JOSEPH	ΜI
139	807.8250	852.8250	WAUKESHA	WI
140	807.8375	852.8375	WINNEBAGO	ΙL
140	807.8375	852.8375	LAKE	IN
140	807.8375	852.8375	KENT	ΜI
141	807.8500	852.8500	DUPAGE	ΙL
141	807.8500	852.8500	CASS	ΜI
141	807.8500	852.8500	MILWAUKEE	WI
142	807.8625	852.8625	STATE GOVT	ΙL
142	807.8625	852.8625	STATE GOVT	IN
142	807.8625	852.8625	STATE GOVT	MI
142	807.8625	852.8625	STATE GOVT	ΜI
142	807.8625	852.8625	STATE GOVT	WI

NEW CH	NEW FREQUE	NCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
143	807.8750		,	IN
143	807.8750	852.8750		WI
144			STATE GOVT	IL
144			STATE GOVT	MI
145	807.9000			IN
145	807.9000			WI
146	807.9125		STATE GOVT	IL
146	807.9125		STATE GOVT	MI
146			STATE GOVT	MI
147			STATE GOVT	IN
147	807.9250			WI
148	807.9375	852.9375	STATE GOVT	ΙL
148	807.9375	852.9375	STATE GOVT	MI
148	807.9375	852.9375	STATE GOVT	MI
149	807.9500	852.9500	STATE GOVT	IN
149	807.9500	852.9500	STATE GOVT	WI
150	807.9625	852.9625	STATE GOVT	IL
150	807.9625	852.9625	STATE GOVT	IL
150	807.9625	852.9625	STATE GOVT	MI
150	807.9625	852.9625	STATE GOVT	MI
150	807.9625	852.9625	STATE GOVT	MI
151	807.9750	852.9750	STATE GOVT	IN
151	807.9750	852.9750	STATE GOVT	WI
152	807.9875	852.9875	STATE GOVT	ΙL
152	807.9875	852.9875	STATE GOVT	MI
152	807.9875	852.9875	STATE GOVT	MI
152	807.9875	852.9875	STATE GOVT	MI
153	808.0125	853.0125	ITAC 4	ΙL
153	808.0125	853.0125	ITAC 4	ΙL
153	808.0125	853.0125	ITAC 4	IN
153	808.0125	853.0125	ITAC 4	MI
153	808.0125	853.0125	ITAC 4	WI
154	808.0375	853.0375	MCHENRY	ΙL
154	808.0375	853.0375	ST. JOSEPH	IN
154	808.0375	853.0375	OZAUKEE	WI
155	808.0500	853.0500	COOK	ΙL
156	808.0625	853.0625	BOONE	ΙL
156	808.0625	853.0625	KANKAKEE	ΙL
156	808.0625	853.0625	BERRIEN	MI
156	808.0625	853.0625	MILWAUKEE	WI
157	808.0750	853.0750	LAKE	ΙL

NEW CH	NEW FREQU	JENCIES	ALLOCATION	STATE
Сп #	MOBILE	BASE	(COUNTY)	
# 158		853.0875		IL
158		853.0875		IN
159		853.1000		IL
159		853.1000		IN
159		853.1000		MI
159		853.1000		WI
160		853.1125		IL
160		853.1125		IN
161		853.1250		IL
161		853.1250		WI
162		853.1375		IL
162		853.1375		WI
163		853.1500		IL
163		853.1500		IN
163		853.1500		WI
164		853.1625		IL
164		853.1625		MI
164		853.1625		WI
165		853.1750		IL
165			ST. JOSEPH	MI
166		853.1875		IN
166		853.1875		MI
166		853.1875		WI
167		853.2000		IL
167	808.2000	853.2000	CASS	MI
168	808.2125	853.2125	WINNEBAGO	IL
168	808.2125	853.2125	LAKE	IN
168	808.2125	853.2125	BARRY	MI
168	808.2125	853.2125	MILWAUKEE	WI
169	808.2250	853.2250	C00K	IL
169	808.2250	853.2250	DANE	WI
170	808.2375	853.2375	WINNEBAGO	IL
170	808.2375	853.2375	VAN BUREN	MI
170	808.2375	853.2375	MILWAUKEE	WI
171	808.2500	853.2500	WILL	IL
171	808.2500	853.2500	KENT	MI
171	808.2500	853.2500	DODGE	WI
172	808.2625	853.2625	ST. JOSEPH	IN
172	808.2625	853.2625	WALWORTH	WI
173	808.2750	853.2750	WILL	IL
173	808.2750	853.2750	MUSKEGON	MI

NEW CH	NEW FREQU	JENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
 173	808.2750		MUSKEGON	MI
173	808.2750		WASHINGTON	WI
174			ST. JOSEPH	IN
174	808.2875		RACINE	WI
175	808.3000	853.3000	C00K	IL
175	808.3000	853.3000	KALAMAZOO	MI
175	808.3000	853.3000	OZAUKEE	WI
176	808.3125		MCHENRY	IL
176	808.3125		MARSHALL	IN
176	808.3125		KENT	MI
177	808.3250		COOK	IL
177	808.3250		KALAMAZ00	MI
177	808.3250	853.3250	KALAMAZ00	MI
177	808.3250	853.3250	MILWAUKEE	WI
178	808.3375		BOONE	IL
178	808.3375	853.3375	STARKE	IN
179	808.3500	853.3500	COOK	IL
179	808.3500	853.3500	ELKHART	IN
179	808.3500	853.3500	NEWTON	IN
179	808.3500	853.3500	KENT	MI
179	808.3500	853.3500	WAUKESHA	WI
180	808.3625	853.3625	STATE GOVT	IL
180	808.3625	853.3625	STATE GOVT	IN
180	808.3625	853.3625	STATE GOVT	MI
180	808.3625	853.3625	STATE GOVT	WI
181	808.3750	853.3750	STATE GOVT	IN
181	808.3750	853.3750	STATE GOVT	WI
182	808.3875	853.3875	STATE GOVT	IL
182	808.3875	853.3875	STATE GOVT	MI
182	808.3875	853.3875	STATE GOVT	MI
183	808.4000	853.4000	STATE GOVT	IN
183	808.4000	853.4000	STATE GOVT	WI
184	808.4125	853.4125	STATE GOVT	IL
184	808.4125	853.4125	STATE GOVT	MI
185	808.4250	853.4250	STATE GOVT	IN
185	808.4250	853.4250	STATE GOVT	WI
186	808.4375	853.4375	STATE GOVT	IL
186	808.4375	853.4375	STATE GOVT	MI
187	808.4500	853.4500	STATE GOVT	IN
187	808.4500	853.4500	STATE GOVT	WI
188	808.4625	853.4625	STATE GOVT	IL

NEW	NEW FREQUE	ENCIES	ALLOCATION		STATE
CH					
#	MOBILE	BASE	(COUNTY)		
188			STATE GOVT		MI
188	808.4625				MI
188	808.4625				MI
189	808.4750				IN
189			STATE GOVT		WI
190	808.4875				IL
190	808.4875				MI
190	808.4875	853.4875	STATE GOVT		MI
190	808.4875	853.4875	STATE GOVT		MI
191	808.5000	853.5000	PRIMARY ZONE	P00L	IL
192	808.5125	853.5125	TOLLWAY		IL
193	808.5250	853.5250	PULASKI		IN
193	808.5250	853.5250	MUSKEGON		MI
193	808.5250	853.5250	MILWAUKEE		WI
194	808.5375	853.5375	KANE		IL
194	808.5375	853.5375	VAN BUREN		MI
195	808.5500	853.5500	COOK		IL
195	808.5500	853.5500	OTTAWA		MI
195	808.5500	853.5500	MILWAUKEE		WI
196	808.5625				IL
196	808.5625	853.5625	LAPORTE		IN
197	808.5750	853.5750	C00K		IL
197	808.5750		OTTAWA		MI
197	808.5750				WI
198	808.5875				MI
198	808.5875				WI
199	808.6000				IL
199	808.6000	853.6000	KENT		MI
200	808.6125	853.6125	WINNEBAGO		IL
200	808.6125	853.6125	ST. JOSEPH		MI
200	808.6125	853.6125			MI
200	808.6125	853.6125			WI
201	808.6250	853.6250	COOK		IL
201	808.6250	853.6250	KENT		MI
202	808.6375	853.6375	COOK		IL
202	808.6375	853.6375	WINNEBAGO		IL
202	808.6375	853.6375	CASS		MI
202	808.6375	853.6375	MILWAUKEE		WI
202	808.6500	853.6500	DUPAGE		IL
203	808.6500	853.6500	JASPER		IN
					MI
203	808.6500	853.6500	KENT		LIT

NEW CH	NEW FREQUE	ENCIES	ALLOCATION	STATE
#	MOBILE	BASE	(COUNTY)	
203	808.6500			WI
204	808.6625			IL
204	808.6625	853.6625	ST. JOSEPH	IN
204			WALWORTH	WI
205	808.6750			ΙL
205	808.6750			MI
206	808.6875	853.6875	ST. JOSEPH	IN
206	808.6875			WI
207	808.7000	853.7000	WILL	IL
207	808.7000			ΜI
207	808.7000			WI
208	808.7125	853.7125	MARSHALL	IN
208			WAUKESHA	WI
209	808.7250			IL
209	808.7250	853.7250	NEWTON	IN
209			KALAMAZOO	ΜI
210	808.7375	853.7375	KENDALL	IL
210	808.7375	853.7375	STARKE	IN
210	808.7375			WI
211	808.7500	853.7500	LAKE	IL
211	808.7500			IN
211	808.7500	853.7500	KENT	MI
212	808.7625	853.7625	LAKE	IN
212	808.7625	853.7625	KALAMAZOO	ΜI
212	808.7625	853.7625	DANE	WI
213	808.7750	853.7750	KANE	IL
213	808.7750	853.7750	PULASKI	IN
213	808.7750	853.7750	MUSKEGON	ΜI
213	808.7750	853.7750	WASHINGTON	WI
214	808.7875	853.7875	LAKE	IN
214	808.7875	853.7875	VAN BUREN	ΜI
214	808.7875	853.7875	KENOSHA	WI
215	808.8000	853.8000	COOK	IL
215	808.8000	853.8000	OTTAWA	ΜI
215	808.8000	853.8000	DANE	WI
216	808.8125	853.8125	BOONE	IL
216	808.8125	853.8125	KANKAKEE	IL
216	808.8125	853.8125	LAPORTE	IN
216	808.8125	853.8125	OZAUKEE	WI
217	808.8250	853.8250	COOK	IL
217	808.8250	853.8250	ELKHART	IN

NEW CH	NEW FREQU	ENCIES	ALLOCATION	STATE
Сп #	MOBILE	BASE	(COUNTY)	
 217	808.8250			ΜI
217	808.8250			WI
218	808.8375		PRIMARY ZONE POOL	
219	808.8500		PRIMARY ZONE POOL	
220	808.8625			ΙL
220	808.8625			IN
220	808.8625			MI
220	808.8625		STATE GOVT	MI
220	808.8625		STATE GOVT	MI
220	808.8625			WI
221	808.8750	853.8750	STATE GOVT	IN
221	808.8750	853.8750		WI
222	808.8875	853.8875	STATE GOVT	IL
222	808.8875	853.8875	STATE GOVT	MI
223	808.9000	853.9000	STATE GOVT	IN
223	808.9000	853.9000	STATE GOVT	WI
224	808.9125	853.9125	STATE GOVT	ΙL
224	808.9125	853.9125	STATE GOVT	MI
224	808.9125	853.9125	STATE GOVT	MI
224	808.9125	853.9125	STATE GOVT	MI
225	808.9250	853.9250	STATE GOVT	IN
225	808.9250	853.9250	STATE GOVT	WI
226	808.9375	853.9375	STATE GOVT	ΙL
226	808.9375	853.9375	STATE GOVT	MI
227	808.9500	853.9500	STATE GOVT	IN
227	808.9500	853.9500	STATE GOVT	WI
228	808.9625	853.9625	STATE GOVT	ΙL
228	808.9625		STATE GOVT	MI
228	808.9625	853.9625	STATE GOVT	MI
228	808.9625	853.9625	STATE GOVT	MI
229	808.9750	853.9750	STATE GOVT	IN
229	808.9750	853.9750	STATE GOVT	WI
230	808.9875	853.9875	STATE GOVT	ΙL
230	808.9875	853.9875	STATE GOVT	MI
230	808.9875	853.9875	STATE GOVT	ΜI

APPENDIX

L

GLOSSARY

(Definitions of terms, abbreviations, and acronyms as they are used in this document)

ADJACENT CHANNELS Channels which are separated by 12.5 KHz

in the 806-809 band.

AGL Above Ground Level; altitude

APCO Associated Public Safety Communications

Officers, Incorporated

AVL Automatic Vehicle Locator; a data trans-

mission device used to determine where a

field unit is

CALLING CHANNEL FCC Channel 1; use of this channel is

restricted to establishing contact among

individual agencies for mutual aid

purposes

CHANNEL An assigned band of frequencies of sufficient

width to permit its use for radio

communication

CHANNEL LOADING The number of mobile transmitters

authorized to operate on a particular channel within the same service area

CO-CHANNEL Utilization of the same channel by two or

more licensees

CONVENER The individual charged with organizing a

Planning Region's initial meeting

THE COMMISSION The Federal Communications Commission:

also, the FCC

THE COMMITTEE The Southern Lake Michigan 800 MHz

Regional Planning Committee

COMMITTEE OF THE WHOLE All members present at a monthly regional

planning meeting

COMMON CHANNELS The five (5) channels specified in the

National Plan which are reserved for mutual inter-agency communication; a **Calling Channel and four Tactical Channels**

CONVENTIONAL OPERATION A method of operation in which one or

> more radio frequency channels are assigned to mobile and base stations but are not employed as a trunked group

CROSS SYSTEM PATCH A means of linking disparate radio

systems

FILING WINDOW A period of time beginning and ending on

> specific dates, designated and announced by the RCRC, during which applications for licenses in the 806-809/851-854 band

may be submitted for evaluation

FREQUENCY ADVISORY

COMMITTEE CHAIRMAN An APCO designated individual charged

with managing spectrum usage within a

State

Communication between, or among, radio INTEROPERABILITY

> units of different agencies MDT Mobile Data Terminal; a field communications device used to transmit and receive data impulses over

radio frequencies

MOBILE RELAY STATION A base station in the mobile service

> authorized to retransmit automatically on a mobile service frequency communications

which originate on the transmitting frequency of the mobile station

MUTUAL AID INCIDENT A situation posing a threat to the public

> safety which requires the services of agencies from differing jurisdictions or

services

NPSPAC National Public Safety Planning Advisory

Committee

THE PLAN The Public Safety Communications plan for

Region 54, the Southern Lake Michigan Region

PRIMARY DISPATCH CENTER A Public Safety Communications Center

designated as a controller of the Common

Channels

PRIMARY ZONE Counties in the Region which have high

population density and a large number of

public safety entities

RCRC The Regional Conformance Review Committee;

a standing body of individuals charged with administering the Plan within the Region

THE REGION The Southern Lake Michigan 800 MHz

Planning Region; forty-three counties throughout Wisconsin, Illinois, Indiana, and Michigan surrounding the southern end

of the Lake

REPEAT DISABLE The means of inhibiting Mobile Relay

SECONDARY ZONE All counties of the Region not designated

as a Primary Zone

SLMRPC The Southern Lake Michigan Regional

Planning Committee

TACTICAL CHANNELS The four Common Channels on which inter-

agency communications will be conducted

during a mutual aid incident

TRUNKED OPERATION A method of operation in which a number

of radio frequency channel pairs are assigned to mobile and base stations in the system for use as a trunk group

VACATED FREQUENCIES Those frequencies returned for reallocation

PROCEDURE FOR DETERMING SERVICE AREA CONTOUR

- 1. Convert effective radiated power from watts to dBk using the formula: $P \{(dBk) = (10 \times D) \} -30 (B-1)$
- 2. SUBTRACT this NEGATIVE number (in other words, convert it to positive and add) from 41 dBu.
- 3. In the look-up tables, determine the two height columns that correspond most closely with your HAAT (for example, if your HAAT is 300 feet, use the 200 and 500 columns).
- 4. Interpolate between the listings under the two columns to determine where the figure arrived at the Step 2 falls.
- 5. Read the mileage at the extreme left-hand column of the row.

EXAMPLE:

To determine the service area of a UHF base station with an ERP of 125 watts and an antenna height above average terrain of 400 feet:

$$P (dBk) = 10 \times log (135) -30$$

P (dBk) = 21 - 30

P(dBk) = -3

Subtracting:

$$F (dBu) = 41 - (-3)$$

F (dBu) = 50

From the look-up table, 50 falls between 45.6 and 53.3 as 400 is interpolated between 200 and 500. Corresponding mileage is 12.

	Α	В	С	D	Е
2	5	60.8	66.0	72.9	79.0
3	6	56.9	61.7	68.7	74.6
4	7	53.4	58.2	65.1	71.0
5	8	50.2	55.1	62.0	68.0
6	9	47.4	52.4	59.4	65.4
7	10	44.8	49.9	57.0	63.1
8	11	42.4	47.7	54.9	60.9
9	12	40.2	45.6	52.9	59.0
10	13	38.2	43.7	51.1	57.2
11	14	36.3	41.9	49.5	55.4
12	15	34.6	40.1	47.9	53.8
13	16	33.0	38.5	46.3	52.2
14	17	31.5	37.0	44.9	50.7
15	18	30.0	35.6	43.5	49.2
16	19	28.7	34.3	42.1	47.9
17	20	27.5	33.0	40.8	46.5
18	21	26.4	31.7	39.5	45.3
19	22	25.3	30.6	38.3	44.1
20	23	24.3	29.5	37.1	42.9
21	24	23.3	28.4	35.9	41.8
22	25	22.4	27.4	34.8	40.7
23	26	21.5	26.4	33.8	39.7
24	27	20.7	26.4	32.7	38.7
25	28	19.9	24.5	31.7	37.7
26	29	19.1	23.6	30.7	36.8
27	30	18.4	22.7	29.8	35.9
28	31	17.6	21.8	28.9	35.0
29	32	16.9	21.0	28.0	34.1
30	33	16.2	20.1	27.1	33.2
31	34	15.6	19.3	26.3	32.4
32	35	14.9	18.6	25.5	31.5
33	36	14.3	17.8	24.6	30.7
34	37	13.7	17.1	23.8	29.9
35	38	13.0	16.4	23.0	29.1
36	39	12.4	15.7	22.3	28.3
37	40	11.8	15.0	21.5	27.6
38	41	11.2	14.3	20.7	26.8

	А	В	С	D	Е
39	42	10.6	13.7	20.0	26.0
40	43	10.1	13.1	19.2	25.3
41	44	9.5	12.5	18.5	24.5
42	45	8.9	11.9	17.8	23.8
43	46	8.4	11.3	17.0	23.1
44	47	7.9	10.7	16.3	22.3
45	48	7.3	10.7	16.3	22.3
46	49	6.8	9.5	15.0	20.9
47	50	6.3	8.9	14.3	20.2
48	51	5.8	8.4	13.6	19.5
49	52	5.3	7.8	13.0	18.8
50	53	4.9	7.3	12.4	18.1
51	54	4.4	6.8	11.8	17.5
52	55	4.0	6.2	11.2	16.8
53	56	3.6	5.2	10.6	16.1
54	57	3.2	5.2	10.0	15.5
55	58	2.8	4.8	9.5	14.9
56	59	2.4	4.3	9.0	14.3
57	60	2.0	3.9	8.4	13.7
58	61	1.7	3.5	7.9	13.1
59	62	1.3	3.1	7.4	12.5
60	63	1.0	2.7	6.9	12.0
61	64	0.7	2.3	6.4	11.4
62	65	0.3	1.0	5.5	10.3
63	66	0.0	1.6	5.5	10.3
64	67	-0.3	1.2	5.0	9.8
65	68	-0.7	0.9	4.5	9.3
66	69	-1.0	0.5	4.1	8.8
67	70	-1.4	0.2	3.7	8.3
68	71	-1.7	-0.2	3.2	7.8
69	72	-2.0	-0.5	2.8	7.3
70	73	-2.4	-0.9	2.4	6.9
71	74	-2.7	-1.2	2.0	6.4
72	75	-3.0	-1.5	1.7	6.0
73	76	-3.3	-1.9	1.3	5.6
74	77	-3.5	-2.1	0.9	5.3
75	78	-3.8	-2.4	0.5	4.8
76	79	-4.0	-2.7	0.1	4.4
77	80	-4.3	-3.1	-0.3	3.9

CO CHANNEL INTERFERENCE PROCEDURE

- 1. Determine distance from the proposed station to the existing station.
- 2. If not previously known, determine service area boundary of existing station (this method is detailed in Appendix B).
- 3. Find distance from proposed station to closest point of service area boundary of the existing station. (subtract #2 from #1)
- 4. Based on mileage from 3 (above), ERP and HAAT of the proposed station, consult look-up tables for dBu level at the service area boundary of the existing station.
- 5. Subtract this dBu level from 41. If result is greater than 25, the proposed system will conform with the interference parameters. If the result is less than 25, the proposed system must be redesigned by lowering power, antenna height, or both until the 25dB protection ratio is met.

NOTE: If the terrain between the two systems would provide additional protection that would not be evident from using the normalized HAAT's, it will be permissible to calculate the HAAT of both existing and proposed systems along the radial line directly connecting the two stations. The resulting service area boundary of the existing station and the dBu level of the proposed station at that point would then be used to calculate the protection ratio.

EXAMPLE:

STATION A (proposed)

ERP: lOOW (-lOdBk)

HAAT: 500 feet, AMSL

Station X (existing)
200W (-7dBk)
300 feet, AMSL

Distance from A to X: 45 miles

Service Area -

Boundary: 13 mi. 11 mi.

46 miles -11 miles = 35 miles, distance from proposed to service area boundary of existing station.

From look-up tables, dBu level at 35 miles from a station with an ERP of 100 watts and HAAT of 500 feet is:

 $25.5 - 10 = 15.5 \, dBu$

Subtracting this amount from the defined 41 dBu level at the service area boundary of the existing station gives 25.5 dB of protection, 0.5 dB more than the minimum we require.

THE SOUTHERN LAKE MICHIGAN 800 MHz PLANNING REGION

REGION 54

GENERAL MEETING NOTICE

A general meeting of the Southern Lake Michigan 800 Mhz Planning Region will take place at Lake Lawn Lodge in Delevan, Wisconsin, in a meeting room to be posted, on March 25, 1992 at 2:00 P.M. All Public Safety users in Illinois, Indiana, Michigan and Wisconsin, as defined in the Region 54 plan, are invited to participate.

The Chairman elect of Region 54, due to his relocation to another State outside the Region, resigned and the selection of a new Chairman will be in the order of business. Also, consideration will be in the offering for the selection of a new Recording Secretary of the Region. A general review of the "Region 54 Plan", its progress since inception, and the state of the Region's remaining 800 MHz frequency resource will be discussed.

For information relative to the "Region 54 Plan" contact your State Frequency advisor. The respective Coordinators are:

STATE	NAME	TELEPHONE NUMBER
Illinois	Clarence Peecher	217-782-7345
Indiana	Donald Kottlowski	317-899-8257
Michigan	David Held	517-336-6240
Wisconsin	Carl Guse	414-885-4450

As a reminder to the public safety agencies requesting frequencies, the Regional Conformance Review Committee (RCRC) usually meets twice each year, in the spring and the fall, to review and evaluate applications for frequencies. Filings are accepted until approximately 30 days before the meeting of the RCRC. The closure date for this spring is March 1, 1992. The RCRC will meet on March 24, 1992 to consider applications for the Spring filing. The fall filing window will close on 1 September 1992 with the RCRC expected to meet, as is the usual practice, on the first Wednesday in November. The exact time and location will be determined at the March RCRC business meeting.

William T. Corbett Secretary and Interim Chairman -Region #54 All changes to the Southern Lake Michigan 800 MHz Regional Plan, Region 54, will be amended or expanded through actions by the Regional Conformance Review Committee (RCRC). The segment of the "Plan" in which the edits appear will be specified and titled to aid in the review of the Plan. At the end of the edited statement(s), all changes will be referenced by date of ratification by the RCRC and where necessary approval date of the FCC. The source document, if in existence, from which change in the Plan has been fostered will be cited.

APPLICATION REVIEW AMENDMENT -PAGE 14 OF "PLAN" FILING WINDOWS -RELATED PROCEDURES

The Regional Conformance Review Committee (RCRC) meets twice each year to facilitate frequency requests. Filing of requests, by Public Safety eligibles, may be submitted to the requestor's State Frequency Advisor at any time. However, a filing window closure of March 1st is specified for action on frequency matters for consideration before each year's initial meeting of the RCRC. October 1st is the filing date closure for actions to be considered for the last RCRC meeting of each year. The meeting of the RCRC, for action on filings, will occur approximately 30 days from the date of filing closure. Filings received between the closure date and the respective RCRC meeting will be deferred until the following RCRC meeting.

Ratified by RCRC January 5, 1990; Ref: Summary of Procedures dated January 8, 1990